

## SEQUENCE LISTING

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<120> COMPOSITIONS AND METHODS FOR THE THERAPY AND  
 DIAGNOSIS OF PROSTATE CANCER

<130> 210121.427C19

<140> US

<141> 2000-09-06

<160> 877

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 814

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(814)

<223> n = A,T,C or G

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ccaggggggtc	cagtcctctct	ccttacttca	tccccatccc	atgccaaagg	aagaccctcc	180
ctccttggtc	cacagccttc	tctaggcttc	ccagtgcctc	caggacagag	tgggttatgt	240
tttcagctcc	atccttgctg	tgagtgtctg	gtgctgtgtg	cctccagctt	ctgctcagtg	300
cttcatggac	agtgtccagc	acatgtcact	ctccactctc	tcagtgtgga	tccactagtt	360
ctagagcggc	cgccaccgcg	gtggagctcc	agcttttggt	cccttttagtg	agggttaatt	420
gcgcgcttgg	cgtaatcatg	gtcataactg	tttcctgtgt	gaaattgtta	tccgctcaca	480

009060" 6 2 2 5 9 5 0

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attccacaca acatacgagc cggaagcata aagtgtaaag cctgggggtgc ctaatgagtg      540
anctaactca cattaattgc gttgcgctca ctgnccgctt tccagtcngg aaaactgtcg      600
tgccagctgc attaatgaat cggccaacgc ncggggaaaa gcggtttgcg ttttgggggc      660
tcttccgctt ctgcgtcaact nantcctgcg ctccggtcntt cggtcgcggg gaacgggtatc      720
actcctcaaa ggnggtatta cggttatccn naaatcnggg gatacccnngg aaaaaanttt      780
aacaaaaggg cancaaaggg cngaaacgta aaaa                                814

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<210> 2
<211> 816
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(816)
<223> n = A,T,C or G

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<400> 2
acagaaatgt tggatggtgg agcacctttc tatacgactt acaggacagc agatggggaa      60
ttcatggctg ttggagcaat agaaccacag ttctacgagc tgctgatcaa aggacttgga      120
ctaaagtctg atgaacttcc caatcagatg agcatggatg attggccaga aatgaagaag      180
aagtttgcag atgtatttgc aaagaagacg aaggcagagt ggtgtcaaat ctttgacggc      240
acagatgcct gtgtgactcc ggttctgact tttgaggagg ttgttcatca tgatcacaaac      300
aaggaacggg gctcgtttat caccagttag gagcaggacg tgagcccccg ccttgcacct      360
ctgctgttaa acaccccagc catcccttct ttcaaaaggg atccactagt tctagaagcg      420
gccgccaccg cgggtggagct ccagcttttg ttcccttttag tgagggttaa ttgcgcgctt      480
ggcgtaatac tgggtcatagc tgtttcctgt gtgaaattgt tatccgctca caattccccc      540
aacatacgag ccggaacata aagtgttaag cctgggggtgc ctaatgantg agctaactcn      600
cattaattgc gttgcgctca ctgcccgtt tccagtcggg aaaactgtcg tgccactgcn      660
ttantgaate ngccaccccc cgggaaaagg cggttgcntt ttgggcctct tccgctttcc      720
tcgtcattg atcctngcnc ccggtcttcg gctgcggnga acggttcact cctcaaaggc      780
ggtntnccgg ttatccccaa acnggggata ccnga                                816

```

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<210> 3
<211> 773
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

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<400> 3
cttttgaaag aagggatggc tgggggtgttt aacagcagag gtgcagggcg ggggctcacg      60
tcttgctcct cactgggtgat aaacgagccc cgttccttgt tgtgatcatg atgaacaacc      120
tctcaaaaag tcagaaccgg agtcacacag gcatctgtgc cgtcaaagat ttgacaccac      180
tctgccttcg tcttctttgc aaatacatct gcaaacttct tcttcatttc tggccaatca      240
tccatgctca tctgattggg aagttcatca gactttagtc canntccttt gatcagcagc      300
tcgtagaact ggggttctat tgctccaaca gccatgaatt ccccatctgc tgtcctgtaa      360
gtcgtataga aaggtgctcc accatccaac atgttctgtc ctcgaggggg ggcccgggtac      420
ccaattcgcc ctatantgag tcgtattacg cgcgctcact ggccgctcgt ttacaacgct      480
gtgactggga aaaccctggg cgttaccaac ttaatcgctt tgcagcacat ccccttttcg      540
ccagctgggc gtaatanaga aaaggcccg accgatcgcc cttccaacag ttgcgcacct      600

```

```

gaatgggnaa atgggacccc cctgttacgg cgcattnaac ccccgcnnggg tttngttggt 660
acccccacnt nnaccgctta cacttttgcca ggcgccttanc gcccgctccc tttcnccttt 720
cttcccttcc tttcnncncn ctttcccccg ggggtttcccc cntcaaacc cna 773

```

```

<210> 4
<211> 828
<212> DNA
<213> Homo sapien

```

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<220>
<221> misc_feature
<222> (1)...(828)
<223> n = A,T,C or G

```

```

<400> 4
cctcctgagt cctactgacc tgtgctttct ggtgtggagt ccagggctgc taggaaaagg 60
aatgggcaga cacaggtgta tgccaatggt tctgaaatgg gtataatttc gtcctctcct 120
tcggaacact ggctgtctct gaagacttct cgctcagttt cagtgaggac acacacaaag 180
acgtgggtga ccatgttggt tgtgggggtgc agagatggga ggggtggggc ccaccctgga 240
agagtggaca gtgacacaag gtggacactc tctacagatc actgaggata agctggagcc 300
acaatgcatg aggcacacac acagcaagga tgacnctgta aacatagccc acgctgtcct 360
gngggcactg ggaagcctan atnaggccgt gagcanaaag aaggggagga tccactagtt 420
ctanagcggc cgccaccgcg gtgganctcc ancttttggt cccttttagtg agggttaatt 480
gcgcgcttgg cntaatcatg gtcatanctn tttcctgtgt gaaattgtta tccgctcaca 540
attccacaca acatacganc cggaaacata aantgtaaag ctgggggtgcc taatgantga 600
ctaactcaca ttaattgcgt tgcgctcact gcccgctttc caatcnggaa acctgtcttg 660
ccncttgcat tnatgaatcn gccaaccccc ggggaaaagc gtttgcgttt tgggcgctct 720
tccgttctct cnetcantta ntccctnenc tcggtcattc cggctgcngc aaaccggttc 780
accnctcca aagggggtat tccggtttcc ccnaatccgg gganancc 828

```

```

<210> 5
<211> 834
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(834)
<223> n = A,T,C or G

```

```

<400> 5
tttttttttt tttttactga tagatggaat ttattaagct tttcacatgt gatagcacat 60
agttttaatt gcatccaaag tactaacaaa aactctagca atcaagaatg gcagcatggt 120
attttataac aatcaacacc tgtggctttt aaaatttggg tttcataaga taattttatac 180
tgaagtaaat ctagccatgc ttttaaaaaa tgctttaggc cactccaagc ttggcagtta 240
acatttgcca taaacaataa taaaacaatc acaatttaat aaataacaaa tacaacattg 300
taggccataa tcatatacag tataaggaaa aggtggtagt gttgagtaag cagttattag 360
aatagaatac cttggcctct atgcaaatat gtctagacac tttgattcac tcagccctga 420
cattcagttt tcaaagtagg agacaggttc tacagtatca ttttacagtt tccaacacat 480
tgaaaacaag tagaaaatga tgagttgatt tttattaatg cattacatcc tcaagagtta 540
tcaccaaccc ctcagttata aaaaattttc aagttatatt agtcatataa cttgggtgtgc 600
ttattttaaa ttagtgctaa atggattaag tgaagacaac aatgggtccc taatgtgatt 660
gatattggtc atttttacca gcttctaaat ctnaactttc aggtttttga actggaacat 720
tgnatnacag tgttccanag ttncaaccta ctggaacatt acagtgtgct tgattcaaaa 780

```

834

<400> 6

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<210> 7
<211> 817
<212> DNA
<213> Homo sapien
```

<400> 7

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cgggccctat	ttcaaagatt	tttaggggaa	ttaattctag	gacgatgggt	atgaaactgt	120
ggtttgctcc	acagatttca	gagcattgac	cgtagtatac	ccccggtcgt	gtagcgggtga	180
aagtggtttg	gtttagacgt	cggggaattg	catctgtttt	taagcctaata	gtggggacag	240
ctcatgagtg	caagacgtct	tgtgatgtaa	ttattatacn	aatgggggct	tcaatcggga	300
gtactactcg	attgtcaacg	tcaaggagtc	gcaggtcgcc	tggttctagg	aataatgggg	360
gaagtatgta	ggaattgaag	attaatccgc	cgtagtcggt	gttctcctag	gttcaatacc	420
attggtggcc	aattgatttg	atggtaaggg	gagggatcgt	tgaactcgtc	tgttatgtaa	480
aggatncctt	ngggatggga	aggcnatnaa	ggactangga	tnaatggcgg	gcangatatt	540
tcaaacngtc	tctanttcct	tacaacgtctg	aaatgttaata	aanaattaan	tttngttatt	600
gaatnttnng	gaaaagggct	taccaggacta	gaacaccaat	angaaaaanta	atnntaangg	660
cnttatcntn	aaaggtnata	accnctccta	tnatcccacc	catngnatt	ccccacncnn	720
acnattggat	nccccanttc	canaaaanggc	cnccccccg	tgnannccnc	cttttggtcc	780
cttnantgan	ggttattcnc	ccctngcntt	atcance			817

<210> 8  
 <211> 799  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1) ... (799)  
 <223> n = A,T,C or G

<400> 8  
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 cataaggaga acttttctgct ggcacgcgct agggacaagc gggagagcga ctccgagcgt 120  
 ctgaagcgca cgtcccagaa ggtggacttg gcactgaaac agctgggaca catccgcgag 180  
 tacgaacagc gcctgaaagt gctggagcgg gaggtccagc agtgtagccg cgtcctgggg 240  
 tgggtggccg angcctganc cgctctgcct tgctgcccc angtgggccg ccacccccctg 300  
 acctgcctgg gtccaaacac tgagccctgc tggcggactt caagganaac cccacacangg 360  
 ggattttgct cctanantaa ggctcatctg ggctcggcc cccccacctg gttggccttg 420  
 tctttgangt gagccccatg tccatctggg ccaactgtcng gaccaccttt ngggagtgtt 480  
 ctctttacaa ccacannatg cccggctcct cccggaaacc antccancc tgngaaggat 540  
 caagnccctgn atccactnnt nctanaaccg gccnccnccg cngtggaacc cnccttntgt 600  
 tccttttctn tnaggggttaa tnnccgcttg gccttnccan ngctcctncc nttttccnnt 660  
 gttnaaattg ttangcnccc nccnntcccn cnnnncnnan cccgaccenn annttnnann 720  
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 ctttccctct nggganncg 799

<210> 9  
 <211> 801  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1) ... (801)  
 <223> n = A,T,C or G

<400> 9  
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 caaggacaag gccaccaggt gcgggggccc aagcccacat gatccttact ctatgagcaa 180  
 aatccccctgt gggggcttct ccttgaagtc cgccancagg gctcagtctt tggacccang 240  
 caggtcatgg ggttgtnngc caactggggg ccncaacgca aaanggcna gggcctcngn 300  
 caccatccc angacgcggc tacactnctg gacctccnc tccaccactt tcatgcgctg 360  
 ttontacccg cgnatntgtc ccantgttt cngtgccnac tccancttct nggacgtgcg 420  
 ctacatacgc ccggantcnc nctcccgtt tgctccatc cacgtncan caacaaattt 480  
 cncctantg caccnattcc cacntttnc agntttccnc nncngcttc cttntaaaag 540  
 ggttganccc cggaaaatnc cccaaagggg gggggccngg taccacaactn cccctnata 600  
 gctgaantcc ccatnaccnn gnetcnatgg anccntccnt tttaannacn ttctnaactt 660  
 gggaanance ctgcncntn ccccnttaa tccncccttg cnangnnent ccccnntcc 720  
 nccnntng gcntntnann cnaaaaaggc ccnnnancaa tctcctnnn cctcanttcg 780  
 ccancctcg aaatcgccn c

<210> 10  
 <211> 789

<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(789)  
<223> n = A,T,C or G

<400> 10  
cagtctatnt ggccagtgtg gcagctttcc ctgtggctgc cgggtgccaca tgccctgtccc 60  
acagtgtggc cgtggtgaca gcttcagccg cccctcacccg gttcaccttc tcagccctgc 120  
agatcctgcc ctacacactg gcctccctct accaccggga gaagcaggtg ttccctgccc 180  
aataccgagg ggacactgga ggtgctagca gtgaggacag cctgatgacc agcttccctgc 240  
caggccctaa gcctggagct cccttcccta atggacacgt ggggtgctgga ggcagtggcc 300  
tgctcccacc tccaccccgcg ctctgcgggg cctctgcctg tgatgtctcc gtacgtgtgg 360  
tggtgggtga gcccaccgan gccagggtgg ttccggggcg gggcatctgc ctggacctcg 420  
ccatcctgga tagtgcttcc tgctgtccca ngtggcccca tccctgttta tgggtcccat 480  
tgtccagctc agccagtctg tcaactgcta tatggtgtct gccgcaggcc tgggtctggt 540  
cccatttact ttgtacaca ggtantattt gacaagaacg anttggccaa atactcagcg 600  
ttaaaaaatt ccagcaacat tgggggtgga aggcctgcct cactgggtcc aactccccgc 660  
tctgttaaac cccatggggc tgccggcttg gccgccatt tctgttgctg ccaaantnat 720  
gtggctctct gctgccacct gttgctggct gaagtgenta cngcncanct nggggggtng 780  
ggngttccc 789

<210> 11  
<211> 772  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(772)  
<223> n = A,T,C or G

<400> 11  
cccaccctac ccaaataatta gacaccaaca cagaaaagct agcaatggat tcccttctac 60  
tttgttaaat aaataagtta aatattttaa tgccctgtgtc tctgtgatgg caacagaagg 120  
accaacaggc cacatcctga taaaaggtaa gaggggggtg gatcagcaaa aagacagtgc 180  
tgtgggctga ggggacctgg ttcttgtgtg ttgccccca ggactcttcc cctacaaata 240  
actttcatat gttcaaatec catggaggag tgtttcatcc tagaaactcc catgcaagag 300  
ctacattaaa cgaagctgca ggttaagggg cttanagatg ggaaaccagg tgactgagtt 360  
tattcagctc ccaaaaaccc ttctctaggt gtgtctcaac taggaggcta gctgttaacc 420  
ctgagcctgg gtaatccacc tgcagagtcc ccgcattcca gtgcatggaa cccttctggc 480  
ctccctgtat aagtcagac tgaaaccccc ttggaaggnc tccagtcagg cagccctana 540  
aactggggaa aaaagaaaag gacgccccan cccccagctg tgcanctacg cacctcaaca 600  
gcacaggggtg gcagcaaaaa aaccacttta ctttggcaca aacaaaaact ngggggggca 660  
accccgccac cccnangggg gttaacagga ancngggnaa cntggaaccc aattnaggca 720  
ggcccnccac ccnaatntt gctgggaaat ttttctccc ctaaattntt tc 772

<210> 12  
<211> 751  
<212> DNA  
<213> Homo sapien

<400> 12

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<210> 13
<211> 729
<212> DNA
<213> Homo sapien
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<400> 13

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<210> 14
<211> 816
<212> DNA
<213> Homo sapien
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<220>
<221> misc_feature
<222> (1) ... (816)
<223> n = A,T,C or G
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gccccaatc cagctgccac accaccacg gtgactgcat tagttcggat gtcatacaaa      60
agctgattga agcaaccctc tacttttttg tctgtagcct tttgcttggt gcaggtttca      120
ttggtgtgt tgggtgacgtt gtcattgcaa cagaatgggg gaaaggcact gttctctttg      180
aagtaggggt agtcctcaaa atccgtatag ttggtgaagc cacagcactt gagccctttc      240
atggtggtgt tccacacttg agtgaagtct tcctgggaac cataatcttt cttgatggca      300
ggcactacca gcaacgtcag gaagtgtca gccattgttg tgtacacca ggcgaccaca      360
gcagctgcaa cctcagcaat gaagatgagg aggaggatga agaagaacgt cncgagggca      420
cacttgctct cgtcttagc accatagcag ccangaaac caagagcaaa gaccacaacg      480
cngctgcga atgaaagaaa ntaccacgt tgacaaactg catggccact ggacgacagt      540
tggcccgaan atcttcagaa aagggatgcc ccacogattg aacacccana tgcccactgc      600
cnacagggct gcnccnccn gaaagaatga gccattgaag aaggatcntc ntggtcttaa      660
tgaactgaaa cntgcatgg tggccctgt tcagggctct tggcagtga ttctganaaa      720
aaggaaacng ntnagcccc ccaaangana aaacaccccc ggggtgttgc ctgaattggc      780
ggccaaggan ccctgccccn g                                     801

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```

<210> 17
<211> 740
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1) ... (740)
<223> n = A,T,C or G

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```

<400> 17
gtgagagcca ggcgtccctc tgccctgcca ctgagtggca acacccggga gctgttttgt      60
cctttgtgga gcctcagcag ttccctcttt cagaactcac tgccaagagc cctgaacagg      120
agccaccatg cagtgttca gtttcattaa gaccatgatg atcctcttca atttgctcat      180
ctttctgtgt ggtgcagccc tgttggcagt gggcatctgg gtgtcaatcg atggggcatc      240
ctttctgaag atcttcgggc cactgtcgtc cagtgccatg cagtttgtca acgtgggcta      300
cttctcatc gcagccggcg ttgtggtctt tgctcttggt ttctgggct gctatgggtgc      360
taagacggag agcaagtgtg ccctcgtgac gttcttcttc atcctctctc tcctcttcat      420
tgctgaagtt gcagctgctg tggtcgcctt ggtgtacacc acaatggctg aaccattcct      480
gacgttgctg gtantgcctg ccatcaanaa agattatggg ttcccaggaa aaattcactc      540
aantntggaa caccnccatg aaaagggctc caatttctgn tggcttcccc aactataccg      600
gaattttgaa agantcnccc tacttccaaa aaaaaanant tgcctttnc cccnttctgt      660
tgcaatgaaa acntccaan acngccaatn aaaacctgcc cnnncaaaaa ggntcncaaa      720
caaaaaaant nnaagggttn                                     740

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```

<210> 18
<211> 802
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1) ... (802)
<223> n = A,T,C or G

```

```

<400> 18
ccgctgggtg cgctggtcca gngnagccac gaagcacgtc agcatacaca gcctcaatca      60
caaggtcttc cagctgccgc acattacgca gggcaagagc ctccagcaac actgcatatg      120
ggatacactt tacttttagc gccagggtga caactgagag gtgtcgaagc ttattcttct      180

```



```
<210> 21
<211> 755
<212> DNA
<213> Homo sapien
```

<400> 21

```
<210> 22
<211> 849
<212> DNA
<213> Homo sapien
```

<400> 22

tttttttttt	tttttangtg	tngtcgtgca	ggtagagget	tactacaant	gtgaanacgt	60
acgctnnggan	taangcgacc	cgantttctag	gannncnccct	aaaatcanac	tgtgaagatn	120
atcctgnnna	cggaanggtc	accggnngat	nntgctaggg	tgncnctcc	cannncnttn	180
cataactcng	nggccctgcc	caccaccttc	ggcgcccnng	ngncggggcc	cgggtcattn	240
gnnttaaccn	cactnngcna	ncggtttcen	ncccnncng	accnnggcga	tccgggggtnc	300
tctgtcttcc	cctgnagncn	anaaantggg	ccncggnccc	ctttaccctt	nnacaagcca	360
cngcctteta	ncnncngccc	ccctccant	nngggggact	gccnannget	ccgttnctng	420
nnaccccnnn	gggtncctcg	gttgctgant	cnaccgnang	ccanggatcc	cnaaggaagg	480
tgcgttnttg	gccccatccc	ttcgctncgg	nncacccttc	ccgacnanga	nccgctcccg	540
cnncnccnng	cctncctcgc	caacaccgcg	ncctntcngt	ncggnnnccc	ccccaccgcg	600

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nccctenenc ngncgnanenc ctcenccncc gtctcannca ccaccccgcc ccgccaggcc 660
ntcanccacn ggnngacnng nagnccnntc gcnccgcgcg gcgnccnccct cgcncncgaa 720
ctnccntcngg ccantnnccg tcaanccnna cnaaacgccg ctgcgcggcc cgnagcgncc 780
nccctccnca gtcctcccgn ctcccnaccc angnnttcen cgaggacacn nnaccccgcc 840
nncangcgg 849

```

```

<210> 23
<211> 872
<212> DNA
<213> Homo sapien

```

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<220>
<221> misc_feature
<222> (1) ... (872)
<223> n = A,T,C or G

```

```

<400> 23
gcgcaaaacta tacttcgctc gnactcgtgc gcctcgtcnc tcttttctct cgcaaccatg 60
tctgacnanc ccgattnggc ngatatcnan aagntcganc agtccaaact gantaacaca 120
cacacnncan aganaaatcc nctgccttcc anagtanacn attgaacnng agaaccangc 180
nggcgaatcg taatnaggcg tgcgcgcgca atntgtcncc gtttatntn ccagcntcnc 240
ctnccnacc ctaentcttc nagctgtcnn acccctngtn cgnaccccc naggtcggga 300
tcgggtttnn nntgaccgng cnnccccctc cccctccat nacganccnc ccgcaccacc 360
nanngcnccg nccccgnct ctgcgcnc cgtgctctn cccctgtngc ctggcnccng 420
accgcattga cctcgcgcnn ctncnngaaa ncgnanacgt ccgggttggn annancgctg 480
tgggnnngcg tctgcnccgc gttccttcen ncncttcca ccatcttct tacngggtct 540
ccnccctc cctnnccacc cctgggacgc tntcctntgc ccccttnac tccccctt 600
cgnccgtgcc cgnccccacc ntcatttnca nacgntcttc acaannccct ggntnnctcc 660
cnancngncc gtcancnag ggaagggngg ggncccnntg nttgacgttg ngngangtc 720
cgaanantcc tcnccntcan cctacccct cgggcgnct ctngttnc aacttancaa 780
ntctcccccg ngngcnctc tcagcctcnc ccccccnct ctctgcantg tctctgctc 840
tnaccnntac gantnttcgn cncctcttt cc 872

```

```

<210> 24
<211> 815
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1) ... (815)
<223> n = A,T,C or G

```

```

<400> 24
gcattgcaagc ttgagtattc tatagngtca cctaaatanc ttggcntaat catggctnta 60
nctgncttcc tgtgtcaaact gtatacnaa tanatatgaa tctnatntga caaganngta 120
tctnccatta gtaacaantg tntgtccat cctgtengan canattccca tnnatnccn 180
cgcattcncc gcnccantatn taatngggaa ntcnnntnnn ncaccnccat ctatctncc 240
gcnccctgac tggagagat ggatnnttc tntntgacc nacatgttca tcttggtatn 300
aanaccccc cgcngnccac cgggttngng cnagccnntc ccaagacctc ctgtggaggt 360
aacctgcgtc aganncatca aacntgggaa acccgcnncc angtnnaagt ngnnncanan 420
gatcccgctc aggnntnacc atcccttcc agcgcgccct ttngtgcctt anagnnagc 480
gtgtccnanc cncatcaat ganacgcgc agnccanccg caattnggca caatgtcgc 540
gaacccccca ggggggantna tncaaancc caggattgtc cncncangaa atcccnanc 600

```

```
<210> 25
<211> 775
<212> DNA
<213> Homo sapien
```

[illegible]

```
<210> 26
<211> 820
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(820)  
<223> n = A,T,C or G
```

<400> 26						
anattantac	agtgtaatct	tttcccagag	gtgtgtanag	ggaacggggc	ctagaggcat	60
cccanagata	ncttatanca	acagtgtctt	gaccaagagc	tgctgggcac	atttcctgca	120
gaaaaggtgg	cggtcccat	cactcctcct	ctcccatagc	catcccagag	gggtgagtag	180
ccatcangcc	ttcggtgggg	gggagtcang	gaaacaacan	accacagagc	anacagacca	240
ntgatgacca	tggggcgggag	cgagcctctt	ccctgnaccg	gggtggcana	nganagccta	300
nctgaggggt	cacactataa	acgttaacga	ccnagatnan	cacctgtctc	aagtgcaccc	360
ttcctacctg	acnaccagn	accnnnaact	gcngcctggg	gacagcnctg	ggancagcta	420
acnnagcact	cacctgcccc	cccattggccg	tncgctctcc	tggtcctgnc	aagggaagct	480
ccctgttgga	attncgggga	naccaaggga	nccccctcct	ccanctgtga	agggaaaann	540
gatggaattt	tncccttcctg	gcnnttcccc	tcttccttta	cacgccccct	ntactctntc	600
tccctctntt	ntcctgcnc	acttttnacc	ccnnnatctt	ccttnattga	tccgannctn	660
ganattccac	tnncgcctnc	cntcnatcng	naanacnaaa	nactntctna	cccnggggat	720
gggnncctcg	ntcactctct	ctttttcnet	accnccnntt	ctttgcctct	ccttngatca	780

820

```
<210> 27
<211> 818
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(818)
<223> n = A,T,C or G
```

<400>	27						
tctgggtgat	ggcctcttcc	tcctcaggga	cctctgactg	ctctgggcca	aagaatctct		60
tgtttcttct	ccgagcccca	ggcagcggtg	attcagccct	gccaacctg	attctgatga		120
ctgcggatgc	tgtgacggac	ccaaggggca	aatagggtcc	cagggtcacg	ggaggggcgc		180
ctgctgagca	cttcgcgccc	tcacctgccc	cagcccctgc	catgagctct	gggctgggtc		240
tccgcctcca	gggtttctgt	cttcacagca	ngccancaa	tggcgctggg	ccacactggc		300
ttcttctgc	ccctccctg	gctctgantc	tctgtcttcc	tgtcctgtgc	angcnccttg		360
gatctcagtt	tccctcctc	anngaactct	gtttctgann	tcttcantta	actntgantt		420
tatnaccnan	tggnetgtnc	tgtnnactt	taatgggcn	gaccggctaa	tccctccctc		480
nctcccttcc	anttcnnna	acngettnc	cntcntctcc	ccntancccg	ccngggaanc		540
ctcctttgcc	ctnaccangg	gcennnaccg	ccentnnetn	ggggggcnng	gtnnctncnc		600
ctgntnnccc	cnctencnnt	tnctctgctc	cnnncnncn	nngcannttc	nngtcccn		660
tnnctctttn	ngntnecnaa	ngntencntn	tnnnnnngcn	ngntnntnnc	tccctctcnc		720
cnnntgnang	tnnttnnnnc	nengnncccc	nnnnnnnnnn	nggnnnntnn	tctncncngc		780
ccnncccccc	nqnattaagg	cctccnntct	ccggccnc				818

```
<210> 28
<211> 731
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G
```

<400> 28						
aggaagggcg	gagggatatt	gtanggggatt	gaggggatagg	agnataangg	gggaggtgtg	60
tcccaacatg	anggtgnngt	tctcttttga	angaggggtg	ngtttttann	ccnggtgggt	120
gattnaaccc	cattgtatgg	agnnaaaggn	tttnagggat	ttttcggtct	ttatcagtat	180
ntanattcct	gtnaatcgga	aaatnatntt	tcnncnggaa	aatnttgctc	ccatccgnaa	240
attnctcccg	ggtagtgcac	nttngggggg	cngccangtt	tcccaggctg	ctanaatcgt	300
actaaaagntt	naagtgggan	tncaaataaa	aacctnnac	agagnatccn	tacccgactg	360
tnnnntncct	tcgccctntg	actctgcnn	agcccaatac	ccnngngnat	gtcncccn	420
nnngcgncnc	tgaaannnnc	tcngngctnn	gancatcang	gggtttcgca	tcaaaagcnn	480
cgtttencat	naaggcaact	tngectcatc	caaccnctng	ccctcnncca	tttngccgtc	540
nggttcncct	acgctnnntg	cncctnnntn	ganattttnc	ccgctnnggg	naancctcct	600
gnaatgggta	gggncttntc	ttttnacnnc	gnggtntact	aatcnnctnc	acgcntnctt	660
tctcnacccc	cccccttttt	caatcccanc	ggcnaatggg	gtctccccnn	cganggggggg	720
nnnccanncc	c					731

<210> 29

<211> 822  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(822)  
 <223> n = A,T,C or G

<400> 29  
 actagtcacg tgtggtggaa ttccattgtg ttggggncnc ttctatgant antnttagat 60  
 cgctcanacc tcacancctc ccnaccnangc ctataangaa nannaataga nctgtncnnt 120  
 atntntacnc tcatanncct cnnacccac tccctcttaa cccntactgt gcctatngcn 180  
 tnnetantct ntgcgcctn cnanccacn gtgggcecnac cncnngnatt ctcnatctcc 240  
 tenccatntn gcctananta ngtncatacc ctatacctac nccaatgcta nnnctaancn 300  
 tccatnantt annntaacta ccactgacnt ngactttcnc atnanctcct aatttgaatc 360  
 tactctgact cccacngcct annnattagc ancntcccc nacnatntct caaccaaate 420  
 ntcaacaacc tatctanctg ttcnccaacc nttncctccg atcccccnac aacccccctc 480  
 ccaaataccc nccacctgac ncctaaccn caccatcccg gcaagccnan ggncatttan 540  
 ccactggaat cacnatngga naaaaaaac ccnaactctc tancncnnat ctccctaana 600  
 aatnctcctn naatttactn ncantnccat caancccaen tgaaacnnaa cccctgtttt 660  
 tanatccctt ctttcgaaaa ccnacccttt annncccaac ctttngggcc ccccnctnc 720  
 ccnaatgaag gncncccaat cnangaaacg nccntgaaaa ancnaaggcna anannntccg 780  
 canatcctat cccttanttn ggggnccctt nccnngggcc cc 822

<210> 30  
 <211> 787  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(787)  
 <223> n = A,T,C or G

<400> 30  
 cggcgcctg ctctggcaca tgctctctga atggcatcaa aagtgatgga ctgcccattg 60  
 ctagagaaga ccttctctcc tactgtcatt atggagccct gcagactgag ggctccccctt 120  
 gtctgcagga tttgatgtct gaagtcgtgg agtgtggctt ggagctcctc atctacatna 180  
 gctggaagcc ctggagggcc tctctcgcca gcctccccct tctctccacg ctctccangg 240  
 acaccagggg ctccaggcag cccattatct ccagnangac atggtgtttc tccacgcgga 300  
 cccatggggc ctgnaaggcc agggctctct ttgacaccat ctctcccgct ctgctgggca 360  
 ggccgtggga tccactantt ctanaacggn cgccaccncg gtgggagctc cagcttttgt 420  
 tcccnttaat gaagggttaat tgcncgcttg gcgtaatcat nggtcanaac tntttcctgt 480  
 gtgaaattgt ttntccccct ncnatccnc ncnacatacn aacccggaan cataaagtgt 540  
 taaagcctgg gggtngccn nngaataaac tnaactcaat taattgcgtt ggctcatggc 600  
 ccgctttccn ttenggaaaa ctgtcntccc ctgcnttnnt gaatcggccca ccccnnggg 660  
 aaaagcgggt tgcnttttng ggggntcctt ccncttcccc cctcnctaan cctnccgct 720  
 cggctgttnc nggtngcggg gaangggnat nnnctccnc naagggggng agnnngntat 780  
 ccccaaa 787

<210> 31  
 <211> 799  
 <212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(799)

<223> n = A,T,C or G

<400> 31

tttttttttt	tttttttggc	gatgctactg	tttaattgca	ggaggtgggg	gtgtgtgtac	60
catgtaccag	ggctattaga	agcaagaagg	aaggaggag	ggcagagcgc	cctgctgagc	120
aacaaaggac	tcctgcagcc	ttctctgtct	gtctcttggc	gcaggcacat	ggggaggcct	180
cccgcagggt	gggggccacc	agtccagggt	tgggagcact	acanggggtg	ggagtgggtg	240
gtggctggtn	cnaatggcct	gncacanatc	cctacgattc	ttgacacctg	gatttcacca	300
ggggaccttc	tgttctccca	nggnaacttc	ntnnatctcn	aaagaacaca	actgtttctt	360
cngcanttct	ggctgttcat	ggaaagcaca	ggtgtccnat	ttnggctggg	acttgggtaca	420
tatggttccg	gcccacctct	ccntcnaaa	aagtaattca	ccccccccc	ccntctnttg	480
cctgggccc	taantaccca	caccggaact	canttantta	ttcatcttng	gntgggcttg	540
ntnatnccn	cctgaangcg	ccaagttgaa	aggccacgcc	gtncnccctc	cccatagnan	600
nttttnnct	canctaatac	ccccccnggc	aacnatccaa	ttccccccc	tggggggccc	660
agcccanggc	ccccgncctc	ggnnnccngn	cncgnantcc	ccaggntctc	ccantcngnc	720
ccnnngcncc	cccgcacgca	gaacanaagg	ntngagccnc	cgcannnnnn	nggtnncnac	780
ctcgcccccc	ccnncgnng					799

<210> 32

<211> 789

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(789)

<223> n = A,T,C or G

<400> 32

tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	60
tttttccnag	ggcagggttta	ttgacaacct	cncgggacac	aancaggctg	gggacaggac	120
ggcaacaggc	tcggcgcgcg	gcggcgcgcg	ccctacctgc	ggtaccaa	ntgcagcctc	180
cgtccccgt	tgatnttcc	ctgcagctgc	aggatgcct	aaaacagggc	ctcgccntn	240
ggtgggcacc	ctgggatttn	aatttccacg	ggcacaatgc	ggtcgcancc	cctcaccacc	300
nattaggaat	agtggtnnta	ccnccnccg	ttggcncact	ccccntggaa	accacttntc	360
gcggctccgg	catctgggtc	taaaccttgc	aaacnctggg	gccctctttt	tggttantnt	420
ncngccaca	atcatnactc	agactggcnc	gggctggccc	caaaaaancn	ccccaaaacc	480
ggncatgtc	ttnnccgggt	tgtcgcnatn	tncatcacct	cccgggcnca	ncaggncaac	540
ccaaaagtcc	ttgngggccn	caaaaaanct	ccggggggnc	ccagtttcaa	caaagtcac	600
ccccttggcc	cccaaatect	ccccccgntt	nctgggtttg	ggaacccacg	cctctnnctt	660
tggngggcaa	gntggntccc	ccttcggggc	cccgggtggc	ccnctctaa	ngaaaacncc	720
ntcctnnnca	ccatcccccc	nngnnacgnc	tancaangna	tccttttttt	tanaaacggg	780
ccccccncc						789

<210> 33

<211> 793

<212> DNA

<213> Homo sapien

005050" 6225960

<220>  
 <221> misc\_feature  
 <222> (1)...(793)  
 <223> n = A,T,C or G

<400> 33  
 gacagaacat gttggatggt ggagcacctt tctatacgac ttacaggaca gcagatgggg 60  
 aattcatggc tgttggagca atanaacccc agttctacga gctgctgac aaaggacttg 120  
 gactaaagtc tgatgaactt cccaatcaga tgagcatgga tgattggcca gaaatgaana 180  
 agaagtttgc agatgtatth gcaaagaaga cgaaggcaga gtggtgtcaa atctttgacg 240  
 gcacagatgc ctgtgtgact ccggttctga cttttgagga ggttggtcat catgatcaca 300  
 acaangaacg gggctcgttt atcaccantg aggagcagga cgtgagcccc cgccctgcac 360  
 ctctgctgtt aaacaccccc gccatccctt ctttcaaaag ggatccacta cttctagagc 420  
 ggnccgccacc gcggtggagc tccagctttt gttcccttta gtgagggtta attgcgcgct 480  
 tggcgtaatc atggtcatan ctgtttcctg tgtgaaattg ttatccgctc acaattccac 540  
 acaacatacg anccggaagc atnaaatttt aaagcctggn ggtngcctaa tgantgaact 600  
 nactcacatt aattggcttt gcgctcactg cccgctttcc agtccggaaa acctgtcctt 660  
 gccagctgcc nttaatgaat cnggccacc cccggggaaa aggcngtttg cttnttgggg 720  
 cgccttccc gctttctcgc ttctgaant ccttcccccc ggtctttcgg cttgcggcna 780  
 acggtatcna cct 793

<210> 34  
 <211> 756  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(756)  
 <223> n = A,T,C or G

<400> 34  
 gccgcgaccg gcatgtacga gcaactcaag ggcgagtgga accgtaaaag ccccaatctt 60  
 ancaagtgcg ggggaanagct gggctgactc aagctagttc ttctggagct caacttcttg 120  
 ccaaccacag ggaccaagct gaccaaacag cagctaattc tggcccgta catactggag 180  
 atcggggccc aatggagcat cctacgcaan gacatccctt ccttcgagcg ctacatggcc 240  
 cagctcaaat gctactactt tgattacaan gagcagctcc ccgagtcagc ctatatgcac 300  
 cagctcttgg gcctcaacct cctcttctctg ctgtcccaga accgggtggc tgantnccac 360  
 acgganttgg ancggtgcc tgcccanga catacanacc aatgtctaca tcnaccacca 420  
 gtgtccttga gcaatactga tgganggcag ctaccncaa gtnttctctg ccnagggtta 480  
 catccccgcg cgagagctac accttcttca ttgacatcct gctcgacact atcagggatg 540  
 aaaatcgcn ggttgctcca gaaaggctnc aanaanatcc ttttctctga agggcccccg 600  
 atnctctagt nctagaatcg gcccgccatc gcggtgganc ctccaacctt tcgttncct 660  
 ttaactgagg ttnattgccg cccttggcgt tatcatggtc acncngttn cctgtgttga 720  
 aattnttaac cccccacaat tccagcna cattn 756

<210> 35  
 <211> 834  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(834)

<223> n = A,T,C or G

<400> 35

```

ggggatctct anactnacct gnatgcatgg ttgtcggtgt ggtecgctgtc gatgaanatg      60
aacaggatct tgccttgaa gctctcggt gctgtnttta agttgtctcag tctgcctgca      120
tagtcagaca cncctctggg caaaaaacan caggatntga gtcttgattt cacctccaat      180
aatcttcngg gctgtctgct cgggtgaactc gatgacnang ggcagctggt tgtgtntgat      240
aaantccanc angttctcct tgggtgacctc cccttcaaag ttgttcgggc cttcatcaaa      300
cttctnnaan angannanc canctttgtc gagctggnat ttgganaaca cgtcactgtt      360
ggaaactgat cccaaatggt atgtcatcca tcgctctgc tgctgcaaa aaacttgctt      420
ggcncaaata cgactcccn tccttgaaag aagccnatca cccccctc cctggactcc      480
nncaangact ctnccgctnc cccntccng cagggttggg ggcanncgg gccntgcgc      540
ttcttcagcc agttcacnat ntcatcagc ccctctgcca gctgtntat tccttggggg      600
ggaanccgtc tctcccttc tgaannaact ttgaccgtng gaatagccgc gentcnccnt      660
acntnctggg cggggttcaa antccctcn ttgnennten cctcgggcca ttctggattt      720
nccnaacttt tctctcccc cncccnccgg ngtttggnnt tttcatnggg ccccaactct      780
gctnttggcc antccctgg gggcntntan cncccctnt ggtcccntng ggcc      834

```

<210> 36

<211> 814

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(814)

<223> n = A,T,C or G

<400> 36

```

cggncgcttt cngcgcgcgc cccgtttcca tgacnaaggc tcccttcang ttaaatacnn      60
cctagnaaac attaatgggt tgctctacta atacatcata cnaaccagta agcctgcca      120
naacgccaac tcaggccatt cctaccaaag gaagaaaggc tggctctctc acccctgta      180
ggaaaggcct gccttgtaag acaccacaat ncggctgaat ctnaagtctt gtgttttact      240
aatggaaaaa aaaaataaac aanaggtttt gttctcatgg ctgcccaccg cagcctggca      300
ctaaaacanc ccagcgtcct cttctgcttg ganaaatatt ctttgcctt ttggacatca      360
ggcttgatgg tatcactgcc acntttccac ccagctgggc ncccttcccc catntttgtc      420
antganctgg aaggcctgaa ncttagtctc caaaagtctc ngcccacaag accggccacc      480
aggggangtc ntttncagtg gatctgcca anantaccn tatcatcnnt gaataaaaag      540
gcccctgaac ganatgcttc cancanctt taagacccat aatcctngaa ccatggtgcc      600
cttcgggtct gatccnaaag gaatgttctt ggggtccant cctcctttg ttncttacgt      660
tgtnttggac cctgctngn atnaccnaan tganatcccc ngaagcacc tnccttggc      720
atttganttt cntaaattct ctgcctacn nctgaaagca cnattcctn ggcnccnaan      780
ggngaactca agaaggtctn ngaaaaacca cncn      814

```

<210> 37

<211> 760

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(760)

<223> n = A,T,C or G



```

ggcgcgctta agcttttctaa atttggaaca tctaagcaag ctgaanggaa aaggggggttt 240
cgcaaaatca ctcggggggaa nggaaagggtt gctttgttaa tcatgcccta tgggtgggtga 300
ttaactgctt gtacaattac ntttcacttt taattaattg tgetnaangc ttttaattana 360
cttggggggtt ccctcccccac accaacccecn ctgacaaaaa gtgcengccc tcaaatnatg 420
tcccggcnnt cnttgaaaca caengcngaa ngttctcatt ntcccccncnc caggtnaaaa 480
tgaagggtta ccatntttta cncacacctc acntggcnnn gectgaatcc tcnaaaancn 540
ccctcaancn aattnctnng ccccggtcnc gentnngtcc cncceggggt cegggaantn 600
cacccccnga anncnntnnc naacnaaatt ccgaaaatat tcccnntcnc tcaattcccc 660
cnnagactnt cctcnncnan cncaattttc ttttnntcac gaacncgnnc cnnaaaatgn 720
nnnnncctc cncnngtcen naatcnccan c 751

```

```

<210> 40
<211> 753
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1) ... (753)
<223> n = A,T,C or G

```

```

<400> 40
gtggtatttt ctgtaagatc aggtgttctt ccctcgtagg tttagaggaa acaccctcat 60
agatgaaaac ccccccgaga cagcagcact gcaactgcc aagcagccggg gtaggagggg 120
cgccctatgc acagctgggc ccttgagaca gcagggttc gatgtcaggc tcgatgtcaa 180
tgggtctggaa gggcgggctg tacctgcgta ggggcacacc gtcagggcc accaggaact 240
tctcaaagtt ccaggcaacn tcgttgcgac acaccggaga ccagggtgatn agcttgggggt 300
cggtcataaan cgcggtggcg tcgtcgctgg gagctggcag ggccctccgc aggaaggcna 360
ataaaagggt cgcccccgca ccgttcanct cgcacttctc naanaccatg angttgggct 420
cnaaccacc accannccgg acttccttga nggaattccc aaatctcttc gntcttgggc 480
ttctnctgat gccctanctg gttgcccnng atgccaanca nccccaancc cgggggtcct 540
aaanacccn cctcctcntt tcatctgggt tnttntcccc ggaccttggt tcctctcaag 600
ggancccata tctcnaccan tactcacnt nccccccnt gnnacccanc cttctanngn 660
tcccncccg ncctctggcc cntcaaanan gcttnacna cctggggtctg ccttcccccc 720
tnccctatct gnaccccnen tttgtctcan tnt 753

```

```

<210> 41
<211> 341
<212> DNA
<213> Homo sapien

```

```

<400> 41
actatatcca tcacaacaga catgcttcat cccatagact tcttgacata gcttcaaagt 60
agtgaaccca tccttgattt atatacatat atgttctcag tattttggga gcctttccac 120
ttcttttaaac cttgttcatt atgaacactg aaaataggaa tttgtgaaga gtaaaaaagt 180
tatagcttgt ttacgtagta agtttttgaa gtctacattc aatccagaca cttagttgag 240
tgttaaactg tgatttttaa aaaatatcat ttgagaatat tctttcagag gtattttcat 300
ttttactttt tgattaattg tgttttatat attagggtag t 341

```

```

<210> 42
<211> 101
<212> DNA
<213> Homo sapien

```

<400> 42  
acttactgaa ttttagttctg tgctcttcct tatttagtgt tgtatcataa atactttgat 60  
gtttcaaaca ttctaaataa ataattttca gtggcttcat a 101

<210> 43  
<211> 305  
<212> DNA  
<213> Homo sapien

<400> 43  
acatctttgt tacagtctaa gatgtgttct taaatcacca ttccttcctg gtcctcacc 60  
tccaggttg tctcacactg taattagagc tattgaggag tctttacagc aaattaagat 120  
tcagatgcct tgctaagtct agagttctag agttatgttt cagaaagtct aagaaaccca 180  
cctcttgaga ggtcagtaaa gaggacttaa tatttcatat ctacaaaatg accacaggat 240  
tggatacaga acgagagtta tcttgataa ctcagagctg agtacctgcc cgggggccgc 300  
tcgaa 305

<210> 44  
<211> 852  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(852)  
<223> n = A,T,C or G

<400> 44  
acataaatat cagagaaaag tagtctttga aatatttacg tccaggagtt ctttgtttct 60  
gattatatttg tgtgtgtttt ggtttgtgtc caaagtattg gcagcttcag ttttcatttt 120  
ctctccatcc tcgggcattc ttcccaaatt tatataccag tcttcgtcca tccacacgct 180  
ccagaatttc tctttttag tagtatctca tagctcggct gagcttttca taggtcatgc 240  
tgctgttggt cttcttttta ccccatagct gagccactgc ctctgatttc aagaacctga 300  
agacgcctc agatcgggtc tccattttta ttaatcctgg gttcttgtct gggttcaaga 360  
ggatgtcgcg gatgaattcc cataagttag tccctctcgg gttgtgcttt ttgggtgtggc 420  
acttggcagg ggggtcttgc tcccttttca tatcagggtga ctctgcaaca ggaagggtgac 480  
tggtggttgt catggagatc tgagcccgcc agaaagtttt gctgtccaac aaatctactg 540  
tgctaccata gttggtgtca tataaatagt tctngtcttt ccagggtgtc atgatggaag 600  
getcagtttg ttcagtcttg acaatgacat tgtgtgtgga ctggaacagg tcaactactgc 660  
actggcgggt ccacttcaga tgctgcaagt tgctgtagag gagntgcccc gccgtccctg 720  
ccgccgggt gaactcctgc aaactcatgc tgcaaagggt ctcgccgttg atgtcgaact 780  
cntggaaagg gatacaattg gcatccagct ggttggtgtc caggaggtga tggagccact 840  
cccacacctg gt 852

<210> 45  
<211> 234  
<212> DNA  
<213> Homo sapien

<400> 45  
acaacagacc cttgctcgct aacgacctca tgctcatcaa gttggacgaa tccgtgtccg 60  
agtctgacac catccggagc atcagcattg cttcgcagtg ccctaccgcg gggaactctt 120  
gcctcgtttc tggctgggggt ctgctggcga acggcagaat gcctaccgtg ctgcagtgcg 180  
tgaacgtgtc ggtggtgtct gaggaggtct gcagtaagct ctatgacctg ctgt 234

<210> 46  
 <211> 590  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (590)  
 <223> n = A,T,C or G

```

<400> 46
acttttttatt taaatgttta taaggcagat ctatgagaat gatagaaaac atgggtgtgta      60
atttgatagc aatatttttg agattacaga gtttttagtaa ttaccaatta cacagttaaa      120
aagaagataa tatattccaa gcanatacaa aatatctaata gaaagatcaa ggcaggaaaa      180
tgantataac taattgacaa tggaaaatca attttaaatgt gaattgcaca ttatccttta      240
aaagctttca aaanaaanaa ttattgcagt ctanttaatt caaacagtgt taaatgggtat      300
caggataaan aactgaaggg canaaagaat taattttcac ttcattgtaac ncacccanatt      360
ttacaatggc ttaaattgcan ggaaaaagca gtggaagtag ggaagtantc aaggtctttc      420
tggtctctaa tctgccttac tctttgggtg tggctttgat cctctggaga cagctgccag      480
ggctcctgtt atatccacaa tcccagcagc aagatgaagg gatgaaaaag gacacatgct      540
gccttccttt gaggagactt catctcactg gccaacactc agtcacatgt      590

```

<210> 47  
 <211> 774  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (774)  
 <223> n = A,T,C or G

```

<400> 47
acaagggggc ataatgaagg agtgggggana gatttttaaag aaggaaaaaa aacgaggccc      60
tgaacagaat tttcctgnac aacgggggctt caaaataatt ttcttgggga ggttcaagac      120
gcttcactgc ttgaaactta aatggatgtg ggacanaatt ttctgtaatg accctgaggg      180
cattacagac gggactcttg gaggaaggat aaacagaaaag gggacaaaag ctaatcccaa      240
aacatcaaag aaaggaaggt ggcgtcatac ctcccagcct acacagttct ccagggtctct      300
cctcatccct ggaggacgac agtggaggaa caactgacca tgtccccagg ctctgtgtgt      360
ctggctcctg gtcttcagcc cccagctctg gaagcccacc ctctgtgat cctgcgtggc      420
ccacactcct tgaacacaca tcccaggtt atattccttg acatggctga acctcctatt      480
cctacttccg agatgccttg ctccctgcag cctgtcaaaa tcccactcac cctccaaacc      540
acggcatggg aagcctttct gacttgcttg attactccag catcttggaa caatccctga      600
ttcccactc cttagaggca agatagggtg gttaagagta gggctggacc acttgagacc      660
aggtgctggt cttcaaattn tggctcattt acgagctatg ggaccttggg caagtnatct      720
tcacttctat gggcntcatt ttgttctacc tgcaaaatgg gggataataa tagt      774

```

<210> 48  
 <211> 124  
 <212> DNA  
 <213> Homo sapien

<220>

<221> misc\_feature  
 <222> (1) ... (124)  
 <223> n = A,T,C or G

<400> 48  
 canaaattga aattttataa aaaggcattt ttctcttata tccataaaat gatataattt 60  
 ttgcaantat anaaatgtgt cataaattat aatgttcctt aattacagct caacgcaact 120  
 tggt 124

<210> 49  
 <211> 147  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (147)  
 <223> n = A,T,C or G

<400> 49  
 gccgatgcta ctatttttatt gcaggagggtg ggggtgtttt tattattctc tcaacagctt 60  
 tgtggctaca ggtgggtgtct gactgcatna aaaanttttt tacgggtgat tgcaaaaatt 120  
 ttagggcacc catatcccaa gcantgt 147

<210> 50  
 <211> 107  
 <212> DNA  
 <213> Homo sapien

<400> 50  
 acattaaatt aataaaagga ctgttgggggt totgctaaaa cacatggctt gatatatattgc 60  
 atgggtttgag gttaggagga gttaggcata tgttttggga gaggggt 107

<210> 51  
 <211> 204  
 <212> DNA  
 <213> Homo sapien

<400> 51  
 gtctaggaa gtctagggga cacacgactc tggggtcacg gggccgacac acttgcacgg 60  
 cgggaaggaa aggcagagaa gtgacaccgt caggggggaaa tgacagaaag gaaaatcaag 120  
 gccttgcaag gtcagaaagg ggactcaggg cttccaccac agccctgccc cacttggcca 180  
 cctccctttt gggaccagca atgt 204

<210> 52  
 <211> 491  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (491)  
 <223> n = A,T,C or G

<400> 52  
 acaaagataa catttatctt ataacaaaaa tttgatagtt ttaaagggtta gtattgtgta 60  
 gggatatttc caaaagacta aagagataac tcaggtaaaa agttagaaat gtataaaaaca 120  
 ccatcagaca ggttttttaa aaacaacata ttacaaaatt agacaatcat ccttaaaaaa 180  
 aaaacttctt gtatcaattt cttttgttca aaatgactga cttaantatt tttaaatatt 240  
 tcanaaacac ttcttcaaaa attttcaana tggtagcttt canatgtncc ctcagtccca 300  
 atgttgctca gataaataaa tctcgtgaga acttaccacc caccacaagc tttctggggc 360  
 atgcaacagt gtcttttctt tnttttttct tttttttttt ttacaggcac agaaactcat 420  
 caattttatt tggataacaa agggctctca aatttatattg aaaaataaat ccaagttaat 480  
 atcactcttg t 491

<210> 53  
 <211> 484  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(484)  
 <223> n = A,T,C or G

<400> 53  
 acataattta gcagggctaa ttaccataag atgctattta ttaanaggtn tatgatctga 60  
 gtattaacag ttgctgaagt ttggatattt tatgcagcat tttctttttg ctttgataac 120  
 actacagaac ccttaaggac actgaaaatt agtaagtaaa gttcagaaac attagctgct 180  
 caatcaaatt tctacataac actatagtaa ttaaaacggt aaaaaaaagt gttgaaatct 240  
 gcactagtat anaccgctcc tgtcaggata anactgcttt ggaacagaaa gggaaaaanc 300  
 agctttgant ttctttgtgc tgatangagg aaaggctgaa ttaccttggt gcctctccct 360  
 aatgattggc aggtcnggta aatnccaaaa catattccaa ctcaacactt cttttccncc 420  
 tancttgant ctgtgtattc caggancagg cggatggaat gggccagccc ncggatgttc 480  
 cant 484

<210> 54  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<400> 54  
 actaaacctc gtgcttggtga actccataca gaaaacggtg ccatccctga acacggctgg 60  
 ccaactgggta tactgctgac aaccgcaaca acaaaaacac aaatccttgg cactggctag 120  
 tctatgtcct ctcaagtgcc tttttgtttg t 151

<210> 55  
 <211> 91  
 <212> DNA  
 <213> Homo sapien

<400> 55  
 acctggcttg tctccgggtg gttcccggcg cccccacgg tccccagaac ggacactttc 60  
 gccctccagt ggatactcga gccaaagtgg t 91

<210> 56  
 <211> 133  
 <212> DNA

<213> Homo sapien

<400> 56

```
ggcggatgtg cgttggttat atacaaatat gtcattttat gtaagggact tgagtatact    60
tggatttttg gtatctgtgg gttgggggga cgggccagga accaataccc catggatacc    120
aagggaacaac tgt                                                    133
```

<210> 57

<211> 147

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1) ... (147)

<223> n = A,T,C or G

<400> 57

```
actctggaga acctgagccg ctgctccgcc tctgggatga ggtgatgcan gcngtggcgc    60
gactgggagc tgagcccttc cctttgcgcc tgccctcagag gattgttgcc gacntgcana    120
tctcantggg ctggatncat gcagggt                                         147
```

<210> 58

<211> 198

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1) ... (198)

<223> n = A,T,C or G

<400> 58

```
acagggatat aggtttnaag ttattgtnat tgtaaaatac attgaatttt ctgtatactc    60
tgattacata catttatcct ttaaaaaaga tgtaaatctt aatttttatg ccatctatta    120
attaccaat gagttacctt gtaaatgaga agtcatgata gcactgaatt ttaactagtt    180
ttgacttcta agtttggt                                                    198
```

<210> 59

<211> 330

<212> DNA

<213> Homo sapien

<400> 59

```
acaacaaatg ggttggtgagg aagtcttatac agcaaaactg gtgatggcta ctgaaaagat    60
ccattgaaaa ttatcattaa tgatttttaa tgacaagtta tcaaaaactc actcaatttt    120
cacctgtgct agcttgctaa aatgggagtt aactctagag caaatatagt atcttctgaa    180
tacagtcaat aaatgacaaa gccagggcct acaggtggtt tccagacttt ccagaccag    240
cagaaggaat ctattttatc acatggatct ccgtctgtgc tcaaaatacc taatgatatt    300
tttcgtcttt attggacttc tttgaagagt                                         330
```

<210> 60

<211> 175

<212> DNA

009050"6225950

<213> Homo sapien

<400> 60

accgtgggtg ctttctacat tctgaaggc tcttcacca acatctggtt ctacttcggc	60
gtcgtgggt ctttctctt cctctcctc cagctgggtg tgctcatcga ctttgccgac	120
tcttggaacc agcgggtggc gggcaaggcc gaggagtgcg attcccgtgc ctggt	175

<210> 61

<211> 154

<212> DNA

<213> Homo sapien

<400> 61

acccacttt tcttctgtg agcagtctgg acttctcact gctacatgat gagggtagt	60
ggttgttgct cttcaacagt atctctccct ttccggatct gctgagccgg acagcagtgc	120
tggactgcac agccccgggg ctccacattg ctgt	154

<210> 62

<211> 30

<212> DNA

<213> Homo sapien

<400> 62

cgctcgagcc ctatagttag tcgtattaga	30
----------------------------------	----

<210> 63

<211> 89

<212> DNA

<213> Homo sapien

<400> 63

acaagtcatt tcagcacct ttgctcttca aaactgacca tcttttatat ttaatgcttc	60
ctgtatgaat aaaaatggtt atgtcaagt	89

<210> 64

<211> 97

<212> DNA

<213> Homo sapien

<400> 64

accggagtaa ctgagtcggg acgctgaatc tgaatccacc aataaataaa ggttctgcag	60
aatcagtgc tccaggattg gtccttgat ctggggt	97

<210> 65

<211> 377

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(377)

<223> n = A,T,C or G

<400> 65

005060" 5225960

```

acaacaanaa ntcccttctt taggccaactg atggaaacct ggaacccccct tttgatggca      60
gcatggcgctc ctaggccttg acacagcggc tgggggtttgg gctntcccaa accgcacacc      120
ccaaccctgg tctaccaca nttctggcta tgggctgtct ctgccactga acatcagggg      180
tcggtcataa natgaaatcc caanggggac agaggtcagt agaggaagct caatgagaaa      240
ggtgctgttt gctcagccag aaaacagctg cctggcattc gccgctgaac tatgaacccg      300
tgggggtgaa ctaccccan gaggaatcat gctggggcga tgcaanggtg ccaacaggag      360
gggcgggagg agcatgt                                     377

```

```

<210> 66
<211> 305
<212> DNA
<213> Homo sapien

```

```

<400> 66
acgcctttcc ctcagaattc agggaagaga ctgtcgctcg ccttccctcg ttgttgctg      60
agaaccctg tgcccttcc caccatatcc accctcgctc catctttgaa ctcaaacacg      120
aggaaactaac tgcacctgg tctctcccc agtccccagt tcacctcca tccctcacct      180
tctccactc taagggatat caacactgcc cagcacaggg gccctgaatt tatgtgggtt      240
ttatatattt ttaataaga tgcactttat gtcatttttt aataaagtct gaagaattac      300
tgttt                                     305

```

```

<210> 67
<211> 385
<212> DNA
<213> Homo sapien

```

```

<400> 67
actacacaca ctccacttgc ccttgtgaga cactttgtcc cagcacttta ggaatgctga      60
ggtcggacca gccacatctc atgtgcaaga ttgccagca gacatcaggt ctgagagttc      120
cccttttaaa aaaggggact tgcttaaaaa agaagtctag ccacgattgt gtagagcagc      180
tgtgtgtgctc tggagattca cttttgagag agttctctc tgagacctga tctttagagg      240
ctgggcagtc ttgcacatga gatggggctg gtctgatctc agcactcctt agtctgcttg      300
cctctcccag ggccccagcc tggccacacc tgcttacagg gcactctcag atgccatac      360
catagtttct gtgctagtgg accgt                                     385

```

```

<210> 68
<211> 73
<212> DNA
<213> Homo sapien

```

```

<400> 68
acttaaccag atatattttt accccagatg gggatattct ttgtaaaaaa tgaaaataaa      60
gtttttttaa tgg                                     73

```

```

<210> 69
<211> 536
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(536)
<223> n = A,T,C or G

```

&lt;400&gt; 69

actagtccag	tgtggtggaa	ttccattgtg	ttgggggctc	tcaccctcct	ctcctgcagc	60
tccagctttg	tgctctgcct	ctgaggagac	catggcccag	catctgagta	ccctgctgct	120
cctgctggcc	accctagctg	tggccctggc	ctggagcccc	aaggaggagg	ataggataat	180
ccgggtggc	atctataacg	cagacctcaa	tgatgagtgg	gtacagcgtg	cccttcactt	240
cgccatcagc	gagtataaca	aggccaccaa	agatgactac	tacagacgtc	cgctgcgggt	300
actaagagcc	aggcaacaga	ccgttggggg	ggtgaattac	ttcttcgacg	tagagggtggg	360
ccgaaccata	tgtaccaagt	cccagcccaa	cttggacacc	tgtgccttcc	atgaacagcc	420
agaactgcag	aagaaacagt	tgtgctcttt	cgagatctac	gaagtccct	ggggagaaca	480
gaangtcct	gggtgaaatc	caggtgtcaa	gaaatcctan	ggatctgttg	ccaggc	536

&lt;210&gt; 70

&lt;211&gt; 477

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 70

atgaccccta	acaggggccc	tctcagccct	cctaattgacc	tccggcctag	ccatgtgatt	60
tcacttccac	tccataacgc	tcctcatact	aggcctacta	accaacacac	taaccatata	120
ccaatgatgg	cgcgatgtaa	cacgagaaag	cacataccaa	ggccaccaca	caccacctgt	180
ccaaaaaggc	cttcgatagc	ggataatcct	atcttattacc	tcagaagttt	ttttcttcgc	240
agggattttt	ctgagccttt	taccactcca	gcctagcccc	taccccccaa	ctaggagggc	300
actggccccc	aacaggcatc	accccgctaa	atccccctaga	agtcccactc	ctaaacacat	360
ccgtattact	cgcatcagga	gtatcaatca	cctgagctca	ccatagtcta	atagaaaaca	420
accgaaacca	aattattcaa	agcactgctt	attacaattt	tactgggtct	ctattttt	477

&lt;210&gt; 71

&lt;211&gt; 533

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (533)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 71

agagctatag	gtacagtgtg	atctcagctt	tgcaaacaca	ttttctacat	agatagtact	60
aggattaat	agatatgtaa	agaaagaaat	cacaccatta	ataatggtaa	gattggttta	120
tgtgatttta	gtggtatttt	tggcaccctt	atatatgttt	tccaaacttt	cagcagtgat	180
attattttcca	taacttaaaa	agtgagtttg	aaaaagaaaa	tctccagcaa	gcatctcatt	240
taaataaagg	tttgtcatct	ttaaaaatac	agcaatatgt	gactttttta	aaaagctgtc	300
aaatagggtg	gaccctacta	ataattatta	gaaatacatt	taaaaacatc	gagtacctca	360
agtcagtttg	ccttgaaaaa	tatcaaatat	aactcttaga	gaaatgtaca	taaaagaatg	420
cttcgtaatt	ttggagtang	aggttccctc	ctcaattttg	tattttttaa	aagtacatgg	480
taaaaaaaaa	aattcacaac	agtatataag	gctgtaaaaa	gaagaattct	gcc	533

&lt;210&gt; 72

&lt;211&gt; 511

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

009060" 15 225960

<222> (1)...(511)

<223> n = A,T,C or G

<400> 72

tattacggaa	aaacacacca	cataattcaa	ctancaaaga	anactgcttc	agggcgtgta	60
aatgaaagg	cttcaggca	gttatctgat	taaagaacac	taaaagaggg	acaaggctaa	120
aagccgcagg	atgtctacac	tatancaggc	gctatttggg	ttggctggag	gagctgtgga	180
aaacatggan	agattggtgc	tgganacgc	cgtggctatt	cctcattggt	attacanagt	240
gaggttctct	gtgtgcccac	tggtttgaaa	accgttctnc	aataatgata	gaatagtaca	300
cacatgagaa	ctgaaatggc	ccaaacccag	aaagaaagcc	caactagatc	ctcagaanac	360
gcttctaggg	acaataaccg	atgaagaaaa	gatggcctcc	ttgtgcccc	gtctgttatg	420
atttctctcc	attgcagcna	naaacccgtt	cttctaagca	aacncagggtg	atgatggcna	480
aaatacaccc	cctcttgaag	naccnggagg	a			511

<210> 73

<211> 499

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(499)

<223> n = A,T,C or G

<400> 73

cagtgccagc	actggtgcc	gtaccagtag	caataacagt	gccagtgcc	gtgccagcac	60
cagtgggtggc	ttcagtgctg	gtgccagcct	gaccgccact	ctcacatttg	ggctcttcgc	120
tggccttggg	ggagctggg	ccagcaccag	tggcagctct	ggtgctgtg	gtttctccta	180
caagttagat	tttagatatt	gttaatcctg	ccagtctttc	tcttcaagcc	aggggtgcac	240
ctcagaaacc	tactcaacac	agcactctag	gcagccacta	tcaatcaatt	gaagttgaca	300
ctctgcatta	aatctatttg	ccatttctga	aaaaaaaaaa	aaaaaaagg	cgccgcctcg	360
antctagagg	gcccgtttta	accgcgtgat	cagcctcgac	tgtgccttct	anttgccagc	420
catctgttgt	ttgcccctcc	cccngtgcct	tccttgaccc	tggaaagtgc	cactcccact	480
gtcctttctc	aantaaaat					499

<210> 74

<211> 537

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(537)

<223> n = A,T,C or G

<400> 74

tttcatagga	gaacacactg	aggagatact	tgaagaatth	ggattcagcc	gcgaagagat	60
ttatcagctt	aactcagata	aaatcattga	aagtaataag	gtaaaagcta	gtctctaact	120
tccaggccca	cggctcaagt	gaatttgaat	actgcattta	cagtgtagag	taacacataa	180
cattgtatgc	atggaaacat	ggaggaaacag	tattacagtg	tcctaccact	ctaatcaaga	240
aaagaattac	agactctgat	tctacagtga	tgattgaatt	ctaaaaatgg	taatcattag	300
ggcttttgat	ttataanact	ttgggtactt	atactaaatt	atggtagtta	tactgccttc	360
cagtttgctt	gatataattg	ttgatattaa	gattccttgac	ttatattttg	aatgggttct	420
actgaaaaan	gaatgatata	ttcttgaaga	catcgatata	cattttattta	caactcttgat	480

009050"0245950

tctacaatgt agaaaatgaa ggaaatgccc caaattgtat ggtgataaaa gtccccgt 537

<210> 75  
 <211> 467  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(467)  
 <223> n = A,T,C or G

<400> 75  
 caaanacaat tgttcaaaag atgcaaatga tacactactg ctgcagctca caaacacctc 60  
 tgcataattac acgtacctcc tctgtctcct caagtagtgt ggtctatttt gccatcatca 120  
 cctgctgtct gcttagaaga acggctttct gctgcaangg agagaaatca taacagacgg 180  
 tggcacaagg aggccatctt ttctcatcg gttattgtcc ctagaagcgt cttctgagga 240  
 tctagtggg ctttctttct gggtttgggc catttcantt ctcatgtgtg tactattcta 300  
 tcattattgt ataacggttt tcaaaccngt gggcacncag agaacctcac tctgtaataa 360  
 caatgaggaa tagccacggg gatctccagc accaaatctc tccatgttnt tccagagctc 420  
 ctccagccaa cccaaatagc cgctgctatn gtgtagaaca tccttgn 467

<210> 76  
 <211> 400  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(400)  
 <223> n = A,T,C or G

<400> 76  
 aagctgacag cattcggggc gagatgtctc gctccgtggc cttagctgtg ctgcgctac 60  
 tctctctttc tggcctggag gctatccagc gtactccaaa gattcagggt tactcacgtc 120  
 atccagcaga gaatggaaag tcaaatttcc tgaattgcta tgtgtctggg tttcatccat 180  
 ccgacattga agttgactta ctgaagaatg gagagagaat tgaaaaagtg gagcattcag 240  
 acttgtcttt cagcaaggac tggcttttct atctcttgta ctacactgaa ttcaccccca 300  
 ctgaaaaaga tgagtatgcc tgccgtgtga accatgtgac tttgtcacag cccaagatng 360  
 ttnagtggga teganacatg taagcagcan catgggaggt 400

<210> 77  
 <211> 248  
 <212> DNA  
 <213> Homo sapien

<400> 77  
 ctggagtgcc ttggtgtttc aagccctgc aggaagcaga atgcaccttc tgaggcacct 60  
 ccagctgccc cggcggggga tgcgaggctc ggagcacctc tgcccggctg tgattgctgc 120  
 caggcactgt tcattctcagc ttttctgtcc ctttgcctcc ggcaagcgct tctgctgaaa 180  
 gttcatatct ggagcctgat gtcttaacga ataaaggtcc catgctccac ccgaaaaaaa 240  
 aaaaaaaa 248

<210> 78

<211> 201  
 <212> DNA  
 <213> Homo sapien

<400> 78  
 actagtccag tgtggtggaa ttccattgtg ttgggcccac cacaatggct acctttaaca 60  
 tcacccagac cccgccctgc ccgtgcccac cgctgctgct aacgacagta tgatgcttac 120  
 tctgctactc ggaaactatt tttatgtaat taatgtatgc tttcttggtt ataatgcct 180  
 gatttaaaaa aaaaaaaaaa a 201

<210> 79  
 <211> 552  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(552)  
 <223> n = A,T,C or G

<400> 79  
 tccttttgtt aggtttttga gacaacccta gacctaaact gtgtcacaga cttctgaatg 60  
 tttaggcagt gctagtaatt tcctcgtaat gattctgtta ttactttcct attctttatt 120  
 cctctttcct ctgaagatta atgaagttga aaattgaggt ggataaatac aaaaaggtag 180  
 tgtgatagta taagtatcta agtgcagatg aaagtgtgtt atatatatcc attcaaaatt 240  
 atgcaagtta gtaattactc agggtttaact aaattacttt aatatgctgt tgaacctact 300  
 ctgttccttg gctagaaaaa attataaaca ggactttgtt agtttgggaa gccaaattga 360  
 taatattcta tgttctaaaa gttgggctat acataaanta tnaagaaata tggaatttta 420  
 ttcccaggaa tatgggggtt atttatgaat antaccggg anagaagttt tgantnaaac 480  
 cngttttggt taatacggtta atatgtcctn aatnaacaag gcntgactta tttccaaaaa 540  
 aaaaaaaaaa aa 552

<210> 80  
 <211> 476  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(476)  
 <223> n = A,T,C or G

<400> 80  
 acagggattt gagatgctaa ggccccagag atcgtttgat ccaaccctct tattttcaga 60  
 ggggaaaaatg gggcctagaa gttacagagc atctagctgg tgcgctggca cccctggcct 120  
 cacacagact cccgagtagc tgggactaca ggcacacagt cactgaagca ggccctgttt 180  
 gcaattcacg ttgccacctc caacttaaac attcttcata tgtgatgtcc ttagtcaacta 240  
 aggttaaaact ttcccaccca gaaaaggcaa cttagataaa atcttagagt actttcatac 300  
 tcttctaagt cctcttccag cctcactttg agtcctcctt gggggttgat aggaantntc 360  
 tcttggtttt ctcaataaaa tctctatcca tctcatgttt aatttggtac gcntaaaaat 420  
 gctgaaaaaa ttaaaatgtt ctggtttcnc tttaaaaaaa aaaaaaaaaa aaaaaa 476

<210> 81  
 <211> 232

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<400> 83						
accgaattgg	gaccgctggc	ttataagcga	tcatgtcctc	cagtattacc	tcaacgagca	60
gggagatcga	gtctatacgc	tgaagaaatt	tgacccgatg	ggacaacaga	cctgctcagc	120
ccatcctgct	cggttctccc	cagatgacaa	atactctcga	caccgaatca	ccatcaagaa	180
acgcttcaag	gtgctcatga	cccagcaacc	gcgcctgtc	ctctgagggg	ccttaaactg	240
atgtcttttc	tgccacctgt	taccctctcg	agactccgta	accaaactct	tgggactgtg	300
agccctgatg	cctttttgcc	agccatactc	tttggcntcc	agtctctcgt	ggcgattgat	360
tatgcttgtg	tgaggcaate	atggtggcat	caccatnaa	gggaacacat	ttganttttt	420
tttcncatat	tttaaattac	naccagaata	nttcagaata	aatgaattga	aaaactctta	480
aaaaaaaaaa	aaaa					494

<210> 84  
 <211> 380  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(380)  
 <223> n = A,T,C or G

<400> 84  
 gctggtagcc tatggcgtgg ccacggangg gctcctgagg cacgggacag tgacttccca 60  
 agtatcctgc gccgcgtctt ctaccgtccc tacctgcaga tcttcgggca gattccccag 120  
 gaggacatgg acgtggccct catggagcac agcaactgct cgtcggagcc cggttcttgg 180  
 gcacaccctc ctggggccca ggcgggcacc tgcgtctccc agtatgccaa ctggctggtg 240  
 gtgctgctcc tcgtcatctt cctgctcgtg gccaacatcc tgctggtcac ttgctcattg 300  
 ccatgttcag ttacacattc ggcaaagtac agggcaacag cnatctctac tgggaaggcc 360  
 agcgttnccg cctcatccgg 380

<210> 85  
 <211> 481  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(481)  
 <223> n = A,T,C or G

<400> 85  
 gagttagctc ctccacaacc ttgatgaggt cgtctgcagt ggctctctgc ttcataccgc 60  
 tnccatcgtc ataactgtagg tttgccacca cctcctgcat cttggggcgg ctaatatcca 120  
 ggaaactctc aatcaagtca ccgtcnatna aacctgtggc tggttctgtc ttccgctcgg 180  
 tgtgaaagga tctccagaag gagtgctcga tcttccccac acttttgatg actttattga 240  
 gtgattctg catgtccagc aggaggttgt accagctctc tgacagtgag gtcaccagcc 300  
 ctatcatgcc nttgaacgtg ccgaagaaca ccgagccttg tgtggggggt gnagtctcac 360  
 ccagattctg cattaccaga nagccgtggc aaaaganatt gacaactcgc ccaggngaa 420  
 aaagaacacc tcctggaagt gctngccgct cctcgtccnt tgggtggngc gcntnccttt 480  
 t 481

<210> 86  
 <211> 472  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(472)  
 <223> n = A,T,C or G

<400> 86  
 aacatcttcc tgtataatgc tgtgtaatat cgatccgatn ttgtctgctg agaattcatt 60  
 acttggaana gcaacttnaa gcctggacac tggattataa attcacaata tgcaaacatt 120  
 taaacagtgt gtcaatctgc tcccttactt tgtcatcacc agtctgggaa taagggtatg 180



```

<400> 89
gaattttgtg cactggccac tgtgatggaa ccattgggcc aggatgcttt gagtttatca 60
gtagtgattc tgccaaagtt ggtggtgtaa catgagtatg taaaatgtca aaaaattagc 120
agaggctctag gtctgcatat cagcagacag tttgtccgtg tattttgtag ccttgaagtt 180
ctcagtgaca agttntttct gatgcgaagt tctnattcca gtgttttagt cctttgcac 240
tttnatgtn agacttgccct ctntnaaatt gcttttgnnt tctgcaggta ctatctgtgg 300
tttaacaaaa tagaannact tctctgcttn gaanatttga atatcttaca tctnaaaatn 360
aattctctcc ccatannaaa acccangccc ttggganaat ttgaaaaang gntccttcnn 420
aattcnnana anttcagntn tcatacaaca naacngganc ccc 463

```

```

<210> 90
<211> 400
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(400)
<223> n = A,T,C or G

```

```

<400> 90
agggattgaa ggtctnttnt actgtcggac tgttcancca ccaactctac aagttgctgt 60
cttccactca ctgtctgtaa gcntnttaac ccagactgta tcttcataaa tagaacaaat 120
tcttcaccag tcacatcttc taggaccttt ttggattcag ttagtataag ctcttccact 180
tcctttgtta agacttcac  tggtaaagtc ttaagttttg tagaaaggaa ttttaattgct 240
cgttctctaa caatgtcctc tccttgaagt atttggctga acaaccacc tnaagtcct 300
ttgtgcatcc attttaaata tacttaatag ggcattggtg cactagggtta aattctgcaa 360
gagtcactgt tctgcaaaag ttgcgttagt atatctgcca 400

```

```

<210> 91
<211> 480
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(480)
<223> n = A,T,C or G

```

```

<400> 91
gagctcggat ccaataatct ttgtctgagg gcagcacaca tatncagtgc catggnaact 60
ggtctacccc acatgggagc agcatgccgt agntatataa ggtcattccc tgagtcagac 120
atgectcttt gactaccgtg tgccagtgtc ggtgattctc acacacctcc nnccgctctt 180
tgtggaaaaa ctggcacttg nctggaacta gcaagacatc acttaciaat tcaccacaga 240
gacacttgaa aggtgtaaca aagcgactct tgcattgctt tttgtccctc cggcaccagt 300
tgtcaatact aaccgctgg tttgcctcca tcacatttgt gatctgtagc tctggataca 360
tctcctgaca gtactgaaga acttcttctt ttgtttcaaa agcaactctt ggtgcctggt 420
ngatcagggt cccatttccc agtccgaatg ttcacatggc atatnttact tcccacaaaa 480

```

```

<210> 92
<211> 477
<212> DNA
<213> Homo sapien

```

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<220>  
 <221> misc\_feature  
 <222> (1)...(477)  
 <223> n = A,T,C or G

<400> 92  
 atacagccca natcccacca cgaagatgcg cttgttgact gagaacctga tgcggtcact 60  
 ggtcccgtg tagccccagc gactctccac ctgctggaag cggttgatgc tgcactcctt 120  
 cccacgcagg cagcagcggg gccgggtcaat gaactccact cgtggcttggt ggttgacggg 180  
 taantgcagg aagaggctga ccacctcgcg gtccaccagg atgcccgact gtgcggggacc 240  
 tgcagcgaaa ctctcgcgatg gtcatgagcg ggaagcgaat gangcccagg gccttgccca 300  
 gaaccttccg cctgtttctct ggcgtcacct gcagctgctg ccgctnacac tcggcctcgg 360  
 accagcggac aaacggcggt gaacagccgc acctcacgga tgcccantgt gtcgcgctcc 420  
 aggaacggcn ccagcgtgtc caggtcaatg tcggtgaanc ctccgcgggt aatggcg 477

<210> 93  
 <211> 377  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(377)  
 <223> n = A,T,C or G

<400> 93  
 gaacggctgg accttgctc gcattgtgct gctggcagga ataccttggc aagcagctcc 60  
 agtcccgagca gcccagacc gctgccgccc gaagctaagc ctgcctctgg ccttcccctc 120  
 cgctcaatg cagaaccant agtgggagca ctgtgtttag agttaagagt gaacactgtn 180  
 tgattttact tgggaatttc ctctgttata tagcttttcc caatgctaatt ttccaaacaa 240  
 caacaacaaa ataacatgtt tgctgtttna gttgtataaa agtangtgat tctgtatnta 300  
 aagaaaatat tactgttaca tatactgctt gcaanttctg tattttattgg tncctctggaa 360  
 ataaatatat tattaata 377

<210> 94  
 <211> 495  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(495)  
 <223> n = A,T,C or G

<400> 94  
 ccctttgagg ggtaggggc cagttcccag tggaagaaac aggccaggag aantgcgtgc 60  
 cgagctgang cagatttccc acagtgacct cagagccctg ggctatagtc tctgaccctt 120  
 ccaaggaaag accaccttct ggggacatgg gctggagggc aggacctaga ggcaccaagg 180  
 gaaggcccca ttccggggct gttccccgag gaggaaggga aggggctctg tgtgcccccc 240  
 acgaggaana ggccctgant cctgggatca nacaccctt cacgtgtatc cccacacaaa 300  
 tgcaagctca ccaagggtccc ctctcagtc cttccctaca ccctgaacgg nactggccc 360  
 acaccacccc agancancca cccgccatgg ggaatgtnc tcaaggaatcg cngggcaacg 420  
 tggactctng tcccnaagg gggcagaatc tccaatagan gganngaacc cttgctnana 480

495

<400> 95

```
<220>
<221> misc_feature
<222> (1)...(476)
<223> n = A,T,C or G
```

<400> 96

```
<220>  
<221> misc_feature  
<222> (1)...(479)  
<223> n = A,T,C or G
```

<400> 97

actctttcta atgctgatat gatcttgagt ataagaatgc atatgtcact agaatggata 60

```
<210> 98
<211> 461
<212> DNA
<213> Homo sapien
```

```
<210> 99
<211> 171
<212> DNA
<213> Homo sapien
```

```
<210> 100
<211> 269
<212> DNA
<213> Homo sapien
```

```
<210> 101
<211> 405
<212> DNA
<213> Homo sapien
```

<400>	101						
tttttttttt	ttttggaatc	tactgcgagc	acagcaggtc	agcaacaagt	ttatttttgc		60
gctagcaagg	taacagggtg	gggcatggtt	acatgttcag	gtcaacttcc	tttgtcgtgg		120
ttgattggtt	tgtctttatg	ggggcggggt	ggggtagggg	aaacgaagca	aataacatgg		180

```

agtgggtgca ccctccctgt agaacctggt tacaaagctt ggggcagttc acctggtctg 240
tgaccgtcat tttcttgaca tcaatgttat tagaagtcag gatatctttt agagagtcca 300
ctgttctgga gggagattag ggtttcttgc caaatccaac aaaatccact gaaaaagttg 360
gatgatcagt acgaataccg aggcatattc tcatatcggg ggcca 405

```

```

<210> 102
<211> 470
<212> DNA
<213> Homo sapien

```

```

<400> 102
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
ggcacttaat ccatttttat ttcaaaatgt ctacaaattt aatcccatta tacgggtattt 120
tcaaaatcta aattattcaa attagccaaa tccttaccaa ataataccca aaaatcaaaa 180
atatacttct ttcagcaaac ttgttacata aattaaata atatatcagg ctgggtgtttt 240
caaagtacaa ttatcttaac actgcaaaca ttttaaggaa ctaaaataaa aaaaaaact 300
ccgcaaaggt taaagggaac aacaaattct tttacaacac cattataaaa atcatatctc 360
aaatcttagg ggaatatata cttcacacgg gatcttaact tttactcact ttgtttattt 420
ttttaaacca ttgtttgggc ccaacacaat ggaatcccc ctggactagt 470

```

```

<210> 103
<211> 581
<212> DNA
<213> Homo sapien

```

```

<400> 103
tttttttttt tttttttttga cccccctctt ataaaaaaca agttaccatt ttattttact 60
tacacatatt tattttataa ttggtattag atattcaaaa ggcagctttt aaaatcaaac 120
taaatggaaa ctgccttaga tacataattc ttaggaatta gcttaaaatc tgcctaaagt 180
gaaaatcttc tctagctctt ttgactgtaa atttttgact cttgtaaaac atccaaattc 240
atttttcttg tctttaaaat tatctaattc ttccattttt tccctattcc aagtcaattt 300
gcttctctag cctcatttcc tagctcttat ctactattag taagtggctt ttttcctaaa 360
agggaaaaca ggaagagaaa tggcacacaa aacaaacatt ttatattcat atttctacct 420
acgttaataa aatagcattt tgtgaagcca gctcaaaaga aggcttagat ccttttatgt 480
ccattttagt cactaaacga tatcaaagtg ccagaatgca aaaggtttgt gaacatttat 540
tcaaaagcta atataagata tttcacatac tcatctttct g 581

```

```

<210> 104
<211> 578
<212> DNA
<213> Homo sapien

```

```

<400> 104
tttttttttt tttttttttt tttttctctt cttttttttt gaaatgagga tcgagttttt 60
cactctctag atagggcatg aagaaaactc atctttccag ctttaaaata acaatcaaat 120
ctcttatgct atatcatatt ttaagttaaa ctaatgagtc actggcttat cttctcctga 180
aggaaatctg ttcattcttc tcattcatat agttatatca agtactacct tgcattattg 240
gagggttttc ttctctattt acacatatat ttccatgtga atttgtatca aacctttatt 300
ttcatgcaaa ctagaaaata atgtttcttt tgcataagag aagagaacaa tatagcatta 360
caaaactgct caaattgttt gttaagttat ccattataat tagttggcag gagctaatac 420
aaatcacatt tacgacagca ataataaaac tgaagtacca gttaaataatc caaaataatt 480
aaaggaacat ttttagcctg ggtataatta gctaattcac tttacaagca tttattagaa 540
tgaattcaca tgttattatt cctagcccaa cacaatgg 578

```

<400> 105

```
<210> 106
<211> 473
<212> DNA
<213> Homo sapien
```

<400> 106

```
<210> 107
<211> 1621
<212> DNA
<213> Homo sapien
```

<400> 107

cgccatggca	ctgcaggga	tctcggtcat	ggagctgtcc	ggcctggccc	cgggcccggt	60
ctgtgctatg	gtcctggctg	acttcggggc	gcgtgtggta	cgcgtggacc	ggcccggtc	120
ccgctacgac	gtgagccgt	tgggcgggg	caagcgtcg	ctagtgtgg	acctgaagca	180
gccgcgggga	gccgcgtgc	tgcggcgtct	gtgcaagcgg	tcggatgtgc	tgtctggagcc	240
cttcgccgcg	ggtgtcatgg	agaaactcca	gctgggccc	gagattctgc	agcgggaaaa	300
tccaaggctt	atttatgcc	ggctgagtgg	atttgccag	tcaggaaagt	tctgccggtt	360
agctggccac	gatatcaact	atttggttt	gtcaggtgtt	ctctcaaaaa	ttggcagaag	420
tggtgagaat	ccgtatgcc	cgctgaatct	cctggctgac	tttgctggtg	gtggccttat	480
gtgtgactg	ggcattataa	tggctctttt	tgaccgcaca	cgactgaca	agggtcaggt	540
cattgatgca	aatatggtgg	aaggaacagc	atatttaagt	tcttttctgt	ggaaaactca	600
gaaatcgagt	ctgtgggaag	cacctcgagg	acagaacatg	ttggatggtg	gagcaccttt	660
ctatacgact	tacaggacag	cagatgggga	attcatggct	gttggaagca	tagaacccca	720
gttctacgag	ctgctgatca	aaggacttgg	actaaagtct	gatgaacttc	ccaatcagat	780
gagcatggat	gattggccag	aaatgaagaa	gaagtttgca	gatgtatttg	caagaagac	840
gaaggcagag	tgggtgcaaa	tctttgacgg	cacagatgcc	tgtgtgactc	cggttctgac	900
ttttgaggag	gttgttcatc	atgatcacia	caaggaaagg	ggctcgttta	tcaccagtga	960
qgagcaggac	gtgagccccc	gccctgcacc	tctgctgtta	aacaccccag	ccatcccttc	1020

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tttcaaaagg gatcctttca taggagaaca cactgaggag atacttgaag aatttggatt 1080
cagccgcgaa gagatttata agcttaactc agataaaatc attgaaagta ataaggtaaa 1140
agctagtctc taacttccag gccacggct caagtgaatt tgaatactgc atttacagt 1200
tagagtaaca cataacattg tatgcatgga aacatggagg aacagtatta cagtgtccta 1260
ccactctaata caagaaaaga attacagact ctgattctac agtgatgatt gaattctaaa 1320
aatgggtatc attagggctt ttgatttata aaactttggg tacttatact aaattatgg 1380
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atttacactc ttgattctac aatgtagaaa atgaggaaat gccacaaatt gtatgggtgat 1560
aaaagtcacg tgaacaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1620
a 1621

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<210> 108  
 <211> 382  
 <212> PRT  
 <213> Homo sapien

<400> 108

Met	Ala	Leu	Gln	Gly	Ile	Ser	Val	Met	Glu	Leu	Ser	Gly	Leu	Ala	Pro	1	5	10	15
Gly	Pro	Phe	Cys	Ala	Met	Val	Leu	Ala	Asp	Phe	Gly	Ala	Arg	Val	Val	20	25	30	
Arg	Val	Asp	Arg	Pro	Gly	Ser	Arg	Tyr	Asp	Val	Ser	Arg	Leu	Gly	Arg	35	40	45	
Gly	Lys	Arg	Ser	Leu	Val	Leu	Asp	Leu	Lys	Gln	Pro	Arg	Gly	Ala	Ala	50	55	60	
Val	Leu	Arg	Arg	Leu	Cys	Lys	Arg	Ser	Asp	Val	Leu	Leu	Glu	Pro	Phe	65	70	75	80
Arg	Arg	Gly	Val	Met	Glu	Lys	Leu	Gln	Leu	Gly	Pro	Glu	Ile	Leu	Gln	85	90	95	
Arg	Glu	Asn	Pro	Arg	Leu	Ile	Tyr	Ala	Arg	Leu	Ser	Gly	Phe	Gly	Gln	100	105	110	
Ser	Gly	Ser	Phe	Cys	Arg	Leu	Ala	Gly	His	Asp	Ile	Asn	Tyr	Leu	Ala	115	120	125	
Leu	Ser	Gly	Val	Leu	Ser	Lys	Ile	Gly	Arg	Ser	Gly	Glu	Asn	Pro	Tyr	130	135	140	
Ala	Pro	Leu	Asn	Leu	Leu	Ala	Asp	Phe	Ala	Gly	Gly	Gly	Leu	Met	Cys	145	150	155	160
Ala	Leu	Gly	Ile	Ile	Met	Ala	Leu	Phe	Asp	Arg	Thr	Arg	Thr	Asp	Lys	165	170	175	
Gly	Gln	Val	Ile	Asp	Ala	Asn	Met	Val	Glu	Gly	Thr	Ala	Tyr	Leu	Ser	180	185	190	
Ser	Phe	Leu	Trp	Lys	Thr	Gln	Lys	Ser	Ser	Leu	Trp	Glu	Ala	Pro	Arg	195	200	205	
Gly	Gln	Asn	Met	Leu	Asp	Gly	Gly	Ala	Pro	Phe	Tyr	Thr	Thr	Tyr	Arg	210	215	220	
Thr	Ala	Asp	Gly	Glu	Phe	Met	Ala	Val	Gly	Ala	Ile	Glu	Pro	Gln	Phe	225	230	235	240
Tyr	Glu	Leu	Leu	Ile	Lys	Gly	Leu	Gly	Leu	Lys	Ser	Asp	Glu	Leu	Pro	245	250	255	
Asn	Gln	Met	Ser	Met	Asp	Asp	Trp	Pro	Glu	Met	Lys	Lys	Lys	Phe	Ala	260	265	270	
Asp	Val	Phe	Ala	Lys	Lys	Thr	Lys	Ala	Glu	Trp	Cys	Gln	Ile	Phe	Asp	275	280	285	

009060" 6225960

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<210> 109
<211> 1524
<212> DNA
<213> Homo sapien
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<210> 110
<211> 3410
<212> DNA
<213> Homo sapien
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<400> 110  
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aagctggacc	ggcaccaaaag	ggctggcaga	aatgggcgcc	tggtgattc	ctaggcagtt	180
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gagtgccctga	acggccccct	gagccctacc	cgcctggccc	actatgggtcc	agaggctgtg	300
ggtgagccgc	ctgctgcggc	accggaaagc	ccagctcttg	ctggtcaacc	tgctaacctt	360
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gcccttcac	tgggcactgt	ccttgggcat	cctgctgagc	ctctttctca	tcccaagggc	600
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gaggctcttat	ctctcagggg	gggtttaagt	gccgtttgca	ataatgtcgt	cttattttatt	3240
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aaattaaagg	ctttcttata	tgttttaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	3360

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa

3410

<210> 111  
 <211> 1289  
 <212> DNA  
 <213> Homo sapien

<400> 111  
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 ccatgcagtg cttcagcttc attaaagacca tgatgatcct cttcaatttg ctcatctttc 180  
 tgtgtggtgc agccctgttg gcagtgggca tctgggtgtc aatcgatggg gcaccccttc 240  
 tgaagatctt cgggccactg tcgtccagt ccagtcagtt tgtcaacgtg ggctacttcc 300  
 tcatcgcagc cggcgttgtg gtctttgtct ttgggttccct gggctgctat ggtgctaaga 360  
 ctgagagcaa gtgtgccctc gtgacgttct tcttcaccc cctcctcatc ttcattgctg 420  
 aggttgacgc tgctgtggtc gccttggtgt acaccacaat ggctgagcac ttctgacgt 480  
 tgctggtagt gcctgccatc aagaaagatt atgggtccca ggaagacttc actcaagtgt 540  
 ggaacaccac catgaaagg ctcaagtgc gtggcttcac caactatacg gattttgagg 600  
 actcacccta cttcaaagag aacagtgcct ttccccatt ctgttgcaat gacaacgtca 660  
 ccaacacagc caatgaaacc tgcaccaagc aaaaggctca cgaccaaaaa gtagaggggt 720  
 gcttcaatca gcttttgtat gacatccgaa ctaatgcagt caccgtgggt ggtgtggcag 780  
 ctggaattgg gggcctcgag ctggctgccca tgattgtgtc catgtatctg tactgcaatc 840  
 tacaataagt ccacttctgc ctctgccact actgtgccca catgggaact gtgaagaggc 900  
 accctggcaa gcagcagtga ttgggggagg ggacaggatc taacaatgtc acttggggcca 960  
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 gtaggcagtt ctgttgccca ttccccagt ctattaaacc cttgatatgc cccctaggcc 1140  
 tagtgggtgat cccagtgtc tactggggga tgagagaaag gcattttata gcctgggcat 1200  
 aagtgaaatc agcagagcct ctgggtggat gtgtagaagg cacttcaaaa tgcataaacc 1260  
 tgttacaatg ttaaaaaaaaa aaaaaaaaaa 1289

<210> 112  
 <211> 315  
 <212> PRT  
 <213> Homo sapien

<400> 112  
 Met Val Phe Thr Val Arg Leu Leu His Ile Phe Thr Val Asn Lys Gln  
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 Leu Gly Pro Lys Ile Val Ile Val Ser Lys Met Met Lys Asp Val Phe  
 20 25 30  
 Phe Phe Leu Phe Phe Leu Gly Val Trp Leu Val Ala Tyr Gly Val Ala  
 35 40 45  
 Thr Glu Gly Leu Leu Arg Pro Arg Asp Ser Asp Phe Pro Ser Ile Leu  
 50 55 60  
 Arg Arg Val Phe Tyr Arg Pro Tyr Leu Gln Ile Phe Gly Gln Ile Pro  
 65 70 75 80  
 Gln Glu Asp Met Asp Val Ala Leu Met Glu His Ser Asn Cys Ser Ser  
 85 90 95  
 Glu Pro Gly Phe Trp Ala His Pro Pro Gly Ala Gln Ala Gly Thr Cys  
 100 105 110  
 Val Ser Gln Tyr Ala Asn Trp Leu Val Val Leu Leu Leu Val Ile Phe  
 115 120 125  
 Leu Leu Val Ala Asn Ile Leu Leu Val Asn Leu Leu Ile Ala Met Phe



Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu Leu Thr Leu Ile Phe Leu  
 195 200 205  
 Thr Cys Val Ala Ala Thr Leu Leu Val Ala Glu Glu Ala Ala Leu Gly  
 210 215 220  
 Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala Pro Ser Leu Ser Pro His  
 225 230 235 240  
 Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe Arg Asn Leu Gly Ala Leu  
 245 250 255  
 Leu Pro Arg Leu His Gln Leu Cys Cys Arg Met Pro Arg Thr Leu Arg  
 260 265 270  
 Arg Leu Phe Val Ala Glu Leu Cys Ser Trp Met Ala Leu Met Thr Phe  
 275 280 285  
 Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu Gly Leu Tyr Gln Gly Val  
 290 295 300  
 Pro Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly  
 305 310 315 320  
 Val Arg Met Gly Ser Leu Gly Leu Phe Leu Gln Cys Ala Ile Ser Leu  
 325 330 335  
 Val Phe Ser Leu Val Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg  
 340 345 350  
 Ala Val Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala  
 355 360 365  
 Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu  
 370 375 380  
 Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala  
 385 390 395 400  
 Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro Lys Tyr Arg Gly  
 405 410 415  
 Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser Leu Met Thr Ser Phe Leu  
 420 425 430  
 Pro Gly Pro Lys Pro Gly Ala Pro Phe Pro Asn Gly His Val Gly Ala  
 435 440 445  
 Gly Gly Ser Gly Leu Leu Pro Pro Pro Pro Ala Leu Cys Gly Ala Ser  
 450 455 460  
 Ala Cys Asp Val Ser Val Arg Val Val Val Gly Glu Pro Thr Glu Ala  
 465 470 475 480  
 Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp  
 485 490 495  
 Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met Gly Ser  
 500 505 510  
 Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met Val Ser Ala Ala  
 515 520 525  
 Gly Leu Gly Leu Val Ala Ile Tyr Phe Ala Thr Gln Val Val Phe Asp  
 530 535 540  
 Lys Ser Asp Leu Ala Lys Tyr Ser Ala  
 545 550

<210> 114

<211> 241

<212> PRT

<213> Homo sapien

<400> 114

Met Gln Cys Phe Ser Phe Ile Lys Thr Met Met Ile Leu Phe Asn Leu

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 Leu Ile Phe Leu Cys Gly Ala Ala Leu Leu Ala Val Gly Ile Trp Val  
                     20                      25                      30  
 Ser Ile Asp Gly Ala Ser Phe Leu Lys Ile Phe Gly Pro Leu Ser Ser  
                     35                      40                      45  
 Ser Ala Met Gln Phe Val Asn Val Gly Tyr Phe Leu Ile Ala Ala Gly  
                     50                      55                      60  
 Val Val Val Phe Ala Leu Gly Phe Leu Gly Cys Tyr Gly Ala Lys Thr  
 65                      70                      75                      80  
 Glu Ser Lys Cys Ala Leu Val Thr Phe Phe Phe Ile Leu Leu Leu Ile  
                     85                      90                      95  
 Phe Ile Ala Glu Val Ala Ala Ala Val Val Ala Leu Val Tyr Thr Thr  
                     100                      105                      110  
 Met Ala Glu His Phe Leu Thr Leu Leu Val Val Pro Ala Ile Lys Lys  
                     115                      120                      125  
 Asp Tyr Gly Ser Gln Glu Asp Phe Thr Gln Val Trp Asn Thr Thr Met  
                     130                      135                      140  
 Lys Gly Leu Lys Cys Cys Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp  
 145                      150                      155                      160  
 Ser Pro Tyr Phe Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn  
                     165                      170                      175  
 Asp Asn Val Thr Asn Thr Ala Asn Glu Thr Cys Thr Lys Gln Lys Ala  
                     180                      185                      190  
 His Asp Gln Lys Val Glu Gly Cys Phe Asn Gln Leu Leu Tyr Asp Ile  
                     195                      200                      205  
 Arg Thr Asn Ala Val Thr Val Gly Gly Val Ala Ala Gly Ile Gly Gly  
                     210                      215                      220  
 Leu Glu Leu Ala Ala Met Ile Val Ser Met Tyr Leu Tyr Cys Asn Leu  
 225                      230                      235                      240  
 Gln

<210> 115  
 <211> 366  
 <212> DNA  
 <213> Homo sapien

<400> 115  
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 catttcaactg tgatgtatat tgtgttgcaa aaaaaaaaaa gtgtctttgt ttaaaattac 120  
 ttggtttgtg aatccatctt gctttttccc cattggaact agtcattaac ccatctctga 180  
 actggtagaa aaacatctga agagctagtc tatcagcatc tgacaggtga attggatggt 240  
 tctcagaacc atttcaccca gacagcctgt ttctatcctg ttaataaat tagtttggt 300  
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 ttagtc 366

<210> 116  
 <211> 282  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(282)

005060"6225960

<223> n = A,T,C or G

<400> 116

acaaagatga	accatttcct	atattatagc	aaaattaaaa	tctacccgta	ttctaataatt	60
gagaaatgag	atnaaacaca	atntttataaa	gtctacttag	agaagatcaa	gtgacctcaa	120
agactttact	atntttcata	tttaagacac	atgatttatc	ctatttttagt	aacctgggtc	180
atacgttaaa	caaaggataa	tgtgaacagc	agagaggatt	tgttggcaga	aaatctatgt	240
tcaatctnga	actatctana	tcacagacat	ttctattcct	tt		282

<210> 117

<211> 305

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(305)

<223> n = A,T,C or G

<400> 117

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tattttatcct	ccctcctgaa	acaattgcaa	aataanacaa	aatatatgaa	acaattgcaa	120
aataaggcaa	aatatatgaa	acaacaggtc	tcgagatatt	ggaaatcagt	caatgaagga	180
tactgatccc	tgatcactgt	cctaatgcag	gatgtgggaa	acagatgagg	tcacctctgt	240
gactgcccc	gcttactgcc	tgtagagagt	ttctangctg	cagttcagac	agggagaaat	300
tggtt						305

<210> 118

<211> 71

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(71)

<223> n = A,T,C or G

<400> 118

accaaggtgt	ntgaatctct	gacgtgggga	tctctgattc	ccgcacaatc	tgagtggaaa	60
aantcctggg	t					71

<210> 119

<211> 212

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(212)

<223> n = A,T,C or G

<400> 119

actccggttg	gtgtcagcag	cacgtggcat	tgaacatngc	aatgtggagc	ccaaaccaca	60
gaaaatgggg	tgaaattggc	caactttcta	tnaacttatg	ttggcaantt	tgccaccaac	120

agtaagctgg cccttctaataaaaagaaaat tgaaaggttt ctactaanc ggaattaant 180  
aatggantca aganactccc aggcctcagc gt 212

<210> 120  
<211> 90  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(90)  
<223> n = A,T,C or G

<400> 120  
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ctccgccggc gcagaacatg ctgggggtgt 90

<210> 121  
<211> 218  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(218)  
<223> n = A,T,C or G

<400> 121  
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gaataagatt tgctaaaaga tttggggcta aaacatgggt attgggagac atttctgaag 120  
atatncangt aaattangga atgaattcat gggtcttttg ggaattcctt tacgatngcc 180  
agcatanact tcatgtgggg atancagcta cccttgta 218

<210> 122  
<211> 171  
<212> DNA  
<213> Homo sapien

<400> 122  
taggggtgta tgcaactgta aggacaaaaa ttgagactca actggcttaa ccaataaagg 60  
catttgtagt ctcatggaac aggaagtcgg atgggtggggc atcttcagtg ctgcatgagt 120  
caccaccccg gcgggggtcat ctgtgccaca ggtccctgtt gacagtgcgg t 171

<210> 123  
<211> 76  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(76)  
<223> n = A,T,C or G

<400> 123

009050"6225960

```
<210> 124
<211> 131
<212> DNA
<213> Homo sapien
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<210> 125
<211> 432
<212> DNA
<213> Homo sapien
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```
<210> 126
<211> 112
<212> DNA
<213> Homo sapien
```

```
<210> 127
<211> 54
<212> DNA
<213> Homo sapien
```

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<210> 128
<211> 323
<212> DNA
<213> Homo sapien
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<400> 128
acctcattag taattgtttt gttgtttcat ttttttctaa tgtctcccct ctaccagctc    60
acctgagata acagaatgaa aatggaagga cagccagatt tctcctttgc tctctgtctc    120
ttctctctga agtctaggtt acccattttg gggaccatt ataggcaata aacacagttc    180

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ccaaagcatt tggacagttt cttgttgtgt tttagaatgg ttttcctttt tcttagcctt      240
ttcctgcaaa aggtcactc agtcccttgc ttgctcagtg gactgggctc cccagggcct      300
aggctgcctt cttttccatg tcc                                              323

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<210> 129
<211> 192
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(192)
<223> n = A,T,C or G

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<400> 129
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tagcacattc atctgtgata naaagatagg tgagtttcat ttccttcacg ttggccaatg      180
gataaacaaa gt                                              192

```

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<210> 130
<211> 362
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(362)
<223> n = A,T,C or G

```

```

<400> 130
ccctttttta tggaatgagt agactgtatg tttgaanatt tanccacaac ctctttgaca      60
tataatgacg caacaaaaag gtgctgttta gtcctatggg tcagtttatg cccctgacaa      120
gtttccattg tgttttgccg atcttctggc taatcgtggg atcctccatg ttattagtaa      180
ttctgtattc ctttttgta acgcctggga gatgtaacct gctangaggc taactttata      240
cttattttaa agctcttatt ttgtgggtcat taaaatggca atttatgtgc agcactttat      300
tgcagcagga agcacgtgtg gggtgggtgt aaagctcttt gctaattcta aaaagtaatg      360
gg                                              362

```

```

<210> 131
<211> 332
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(332)
<223> n = A,T,C or G

```

```

<400> 131
ctttttgaaa gatcgtgtcc actcctgtgg acatcttggt ttaatggagt ttcccatgca      60
gtangactgg tatggttgca gctgtccaga taaaaacatt tgaagagctc caaaatgaga      120
gttctcccag gttgcacctg ctgctccaag tctcagcagc agcctctttt aggaggcatc      180
ttctgaacta gattaaggca gcttgtaaat ctgatgtgat ttggtttatt atccaactaa      240

```

009050"6245950

```
<210> 132
<211> 322
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(322)
<223> n = A,T,C or G
```

```
<210> 133
<211> 278
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(278)
<223> n = A,T,C or G
```

```
<210> 134
<211> 121
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(121)
<223> n = A,T,C or G
```

<210> 135



<213> Homo sapien

<220>

<221> misc\_feature

<222> (1) ... (338)

<223> n = A,T,C or G

<400> 138

actcactgga	atgccacatt	cacaacagaa	tcagaggtct	gtgaaaacat	taatggctcc	60
ttaactttctc	cagtaagaat	cagggacttg	aaatggaaac	gttaacagcc	acatgcccac	120
tgctgggcag	tctcccatgc	cttcacacag	gaaagggtct	gagaaaaatc	acatccaatg	180
tcatgtgttt	ccagccacac	caaaagggtgc	ttgggggtgga	gggctggggg	catananggt	240
cangcctcag	gaagcctcaa	gttccattca	gctttgccac	tgtacattcc	ccatntttta	300
aaaaactgat	gccttttttt	tttttttttg	taaaattc			338

<210> 139

<211> 382

<212> DNA

<213> Homo sapien

<400> 139

gggaatcttg	gtttttggca	tctggtttgc	ctatagccga	ggccactttg	acagaacaaa	60
gaaagggact	tcgagtaaga	aggtgattta	cagccagcct	agtgcccgaa	gtgaaggaga	120
attcaaacag	acctcgatc	tcttggtgtg	agcctggtcg	gtcaccgcc	tatcatctgc	180
atttgctta	ctcaggtgct	accggactct	ggccctgat	gtctgtagtt	tcacaggatg	240
ccttatttgt	cttctacacc	ccacagggcc	ccctacttct	tcggatgtgt	ttttaataat	300
gtcagctatg	tgccccatcc	tccttcacgc	cctccctccc	tttccctacca	ctgctgagtg	360
gcctggaact	tgtttaaagt	gt				382

<210> 140

<211> 200

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1) ... (200)

<223> n = A,T,C or G

<400> 140

accaaancctt	ctttctgttg	tgttngattt	tactataggg	gtttngcttn	ttctaaanat	60
acttttcatt	taacancctt	tgtaagtgt	caggctgcac	tttgctccat	anaattattg	120
ttttcacatt	tcaacttgta	tgtgtttgtc	tcttanagca	ttggtgaaat	cacatatttt	180
atattcagca	taaaggagaa					200

<210> 141

<211> 335

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1) ... (335)

<223> n = A,T,C or G

<400> 141  
 actttatttt caaaacactc atatgttgca aaaaacacat agaaaaataa agtttggtgg 60  
 ggggtgctgac taaacttcaa gtcacagact tttatgtgac agattggagc aggggtttgtt 120  
 atgcatgtag agaaccctaaa ctaatttatt aaacaggata gaaacaggct gtctgggtga 180  
 aatggttctg agaaccatcc aattcacctg tcagatgctg atanactagc tcttcagatg 240  
 tttttctacc agttcagaga tnggttaatg actanttcca atggggaaaa agcaagatgg 300  
 attcacaac caagtaattt taaacaaaga cactt 335

<210> 142  
 <211> 459  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(459)  
 <223> n = A,T,C or G

<400> 142  
 accaggttaa tattgccaca tatatccttt ccaattgcgg gctaaacaga cgtgtattta 60  
 gggttgttta aagacaaccc agcttaatat caagagaaat tgtgaccttt catggagtat 120  
 ctgatggaga aaacactgag ttttgacaaa tcttatttta ttcagatagc agtctgatca 180  
 cacatgggtcc aacaacactc aaataataaa tcaaataatna tcagatgtta aagattggtc 240  
 ttcaaacatc atagccaatg atgccccgct tgccataat ctctccgaca taaaaccaca 300  
 tcaacacctc agtggccacc aaaccattca gcacagcttc cttaactgtg agctgtttga 360  
 agctaccagt ctgagcacta ttgactatnt ttttcangct ctgaatagct ctagggatct 420  
 cagcanggggt gggaggaacc agctcaacct tggcgtant 459

<210> 143  
 <211> 140  
 <212> DNA  
 <213> Homo sapien

<400> 143  
 acatttcctt ccaccaagtc aggactcctg gcttctgtgg gagttcttat cacctgaggg 60  
 aaatccaaac agtctctcct agaaaggaat agtgtcacca accccacca tctccctgag 120  
 accatccgac ttcctgtgt 140

<210> 144  
 <211> 164  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(164)  
 <223> n = A,T,C or G

<400> 144  
 acttcagtaa caacatacaa taacaacatt aagtgtatat tgccatcttt gtcattttct 60  
 atctatacca ctctcccttc tgaaaacaan aatcactanc caatcactta tacaaatttg 120  
 aggcaattaa tccatatttg ttttcaataa ggaaaaaaag atgt 164



<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(477)

<223> n = A,T,C or G

<400> 148

acaaccactt	tatctcatcg	aatttttaac	ccaaactcac	tactgtgcc	tttctatcct	60
atgggatata	ttatttgatg	ctccatttca	tcacacatat	atgaataata	cactcatact	120
gccctactac	ctgctgcaat	aatcacattc	ccttcctgtc	ctgaccctga	agccattggg	180
gtggctctag	tggccatcag	tccangcctg	caccttgagc	ccttgagctc	cattgctcac	240
nccancccac	ctcacgcacc	ccatcctctt	acacagctac	ctccttgctc	tctaacccca	300
tagattatnt	ccaaattcag	tcaattaagt	tactattaac	actctacccg	acatgtccag	360
caccactggg	aagccttctc	cagccaacac	acacacacac	acacncacac	acacacatat	420
ccaggcacag	gctacctcat	cttcacaatc	acccctttaa	ttaccatgct	atgggtgg	477

<210> 149

<211> 207

<212> DNA

<213> Homo sapien

<400> 149

acagttgtat	tataatatca	agaaataaac	ttgcaatgag	agcatttaag	agggagaagac	60
taacgtattt	tagagagcca	aggaaggttt	ctgtggggag	tgggatgtaa	ggtggggcct	120
gatgataaat	aagagtcagc	caggtaagtg	ggtggtgtgg	tatgggcaca	gtgaagaaca	180
tttcaggcag	agggaaacagc	agtgaac				207

<210> 150

<211> 111

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(111)

<223> n = A,T,C or G

<400> 150

accttgattt	cattgctgct	ctgatggaaa	cccaactatc	taatttagct	aaaacatggg	60
cacttaaagt	tggtcagtgt	ttggacttgt	taactantgg	catctttggg	t	111

<210> 151

<211> 196

<212> DNA

<213> Homo sapien

<400> 151

agcgcggcag	gtcatattga	acattccaga	tacctatcat	tactcgatgc	tggtgataac	60
agcaagatgg	ctttgaactc	agggtcacca	ccagctattg	gaccttacta	tgaaaaccat	120
ggataccaac	cggaaaaccc	ctatcccgc	cagcccactg	tggtccccac	tgtctacgag	180
gtgcatccgg	ctcagt					196

<210> 152

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<400> 152
acagcacttt cacatgtaag aaggagaaa ttctaaatg taggagaaag ataacagaac      60
cttccccctt tcatctagtg gtggaaacct gatgctttat gttgacagga atagaaccag      120
gagggagttt gt                                     132

```

```
<220>
<221> misc_feature
<222> (1)...(285)
<223> n = A,T,C or G
```

```
<210> 154
<211> 333
<212> DNA
<213> Homo sapien
```

```
<210> 155
<211> 308
<212> DNA
<213> Homo sapien
```

<400> 155						
actggaata	ataaaaccca	catcacagt	ttgtgtcaa	gatcatcagg	gcatggatgg	60
gaaagtgtt	tgggaactgt	aaagtgccta	acacatgatc	gatgatTTTT	gttataatat	120
ttgaatcacg	gtgcatacaa	actctctctg	ctgctctctc	tgggccccag	ccccagccc	180
atcacagctc	actgctctgt	tcatccagqc	ccagcatgta	gtggctgatt	cttcttggct	240

```
<210> 156
<211> 295
<212> DNA
<213> Homo sapien
```

```
<210> 157
<211> 126
<212> DNA
<213> Homo sapien
```

```
<210> 158
<211> 442
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(442)
<223> n = A,T,C or G
```

```
<210> 159
<211> 498
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(498)
<223> n = A,T,C or G
```



```

<400> 163
catttataca gacaggcgtg aagacattca cgacaaaaac gcgaaattct atcccgtagc      60
canagaaggc agctacggct actcctacat cctggcgtgg gtggccttcg cctgcacctt      120
catcacgggc atgatgtt
                                     137

```

```

<220>
<221> misc_feature
<222> (1)...(469)
<223> n = A,T,C or G

<400> 164
cttatcacaa tgaatgttct cctgggcagc gttgtgatct ttgccacctt cgtgacttta      60
tgcaatgcat catgctatatt catacctaata gagggagttc caggagattc aaccaggaaa      120
tgcatggatc tcaaaggaaa caaacaccca ataaactcgg agtggcagac tgacaactgt      180
gagacatgca cttgctacga aacagaaatt tcatgttgca cccttgtttc tacacctgtg      240
ggttatgaca aagacaactg ccaaagaatc ttcaagaagg aggactgcaa gtatatcgtg      300
gtggagagaa aggacccaaa aaagacctgt tctgtcagtg aatggataat ctaatgtgct      360
tctagtaggc acagggtccc caggccaggc ctcattctcc tctggcctct aatagtcaat      420
gatttgtgtag ccatgcctat cagtaaaaaag atntttgagc aaacacttt      469

```

```

<220>
<221> misc_feature
<222> (1)...(195)
<223> n = A,T,C or G

<400> 165
acagtttttt atanatatcg acattgccgg cacttggtgtt cagtttcata aagctggtgg      60
atccgctgttc atccactatt ccttggctag agtaaaaatt attcttatag cccatgtccc      120
tgcaggccgc  ccgcccgtag ttctcgttcc agtcgtcttg gcacacaggg tgccaggact      180
tcctctqaga tqagt                                     195

```

```
<220>
<221> misc feature
```



<223> n = A,T,C or G

<400> 169

```
acagccttgg cttccccaaa ctccacagtc tcagtgcaga aagatcatct tccagcagtc      60
agctcagacc aggggtcaaag gatgtgacat caacagtttc tggtttcaga acaggttcta      120
ctactgtcaa atgaccccc atacttcctc aaaggctgtg gtaagttttg cacaggtgag      180
ggcagcagaa aggggggtant tactgatgga caccatcttc tctgtatact ccacactgac      240
cttgccatgg gcaaaggccc ctaccacaaa aacaatagga tcaactgctgg gcaccagctc      300
acgcacatca ctgacaaccg ggatggaaaa agaantgcc aactttcatac atccaactgg      360
aaagtgatct gatactggat tcttaattac cttcaaaagc ttctgggggc catcagctgc      420
tcgaacactg a                                     431
```

<210> 170

<211> 266

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1) ... (266)

<223> n = A,T,C or G

<400> 170

```
acctgtgggc tgggctgtta tgccctgtgc ggctgctgaa agggagttca gaggtggagc      60
tcaaggagct ctgcaggcat tttgccaanc ctctccanag canagggagc aacctacact      120
ccccgctaga aagacaccag attggagtc tgggaggggg agttgggggtg ggcatttgat      180
gtatacttgt cacctgaatg aangagccag agaggaanga gacgaanatg anattggcct      240
tcaaagctag gggctctggca ggtgga                                     266
```

<210> 171

<211> 1248

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1) ... (1248)

<223> n = A,T,C or G

<400> 171

```
ggcagccaaa tcataaacgg cgaggactgc agcccgcaact cgcagccctg gcaggcggca      60
ctggtcatgg aaaacgaatt gttctgctcg ggcgtcctgg tgcacccgca gtgggtgctg      120
tcagccgcac actgtttcca gaagtgagtg cagagctcct acaccatcgg gctgggacctg      180
cacagtcttg aggcggacca agagccaggg agccagatgg tggaggccag cctctccgta      240
cggcaccag agtacaacag acccttgctc gctaacgacc tcatgctcat caagttggac      300
gaatccgtgt ccgagtctga caccatccgg agcatcagca ttgcttcgca gtgccctacc      360
gcgggggaact cttgcctcgt ttctggctgg ggtctgctgg cgaacggcag aatgcctacc      420
gtgctgcagt gcgtgaacgt gtcggtgggtg tctgaggagg tctgcagtaa gctctatgac      480
ccgctgtacc accccagcat gttctgcgcc ggcggaggggc aagaccagaa ggactcctgc      540
aacggtgact ctgggggggcc cctgatctgc aacgggtact tgcagggcct tgtgtctttc      600
ggaaaagccc cgtgtggcca agttggcgtg ccagggtgtct acaccaacct ctgcaaattc      660
actgagtggg tagagaaaac cgtccaggcc agttaaactct ggggactggg aacctatgaa      720
attgaccccc aaatacatcc tgcggaagga attcaggaat atctgttccc agccctcct      780
ccctcaggcc caggagtcca ggccccccagc cctcctccc tcaaaccaag ggtacagatc      840
```

005060" 6224560

```

cccagccctt cctccctcag acccaggagt ccagaccccc cagccctcc tccctcagac 900
ccaggagtcc agccctcct ccctcagacc caggagtcca gacccccag cccctcctcc 960
ctcagaccca ggggtccagg cccccaaccc ctctccctc agactcagag gtccaagccc 1020
ccaacccntc attccccaga ccagagggtc cagggtcccag cccctcntcc ctcagaccca 1080
gcggtccaat gccacctaga ctntccctgt acacagtgcc cccttgtggc acgttgaccc 1140
aaccttacca gttggttttt catttttngt ccctttcccc tagatccaga aataaagttt 1200
aagagaagng caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 1248

```

```

<210> 172
<211> 159
<212> PRT
<213> Homo sapien

```

```

<220>
<221> VARIANT
<222> (1)...(159)
<223> Xaa = Any Amino Acid

```

```

<400> 172
Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro
 1          5          10          15
Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser
 20          25          30
Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr
 35          40          45
Ala Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly
 50          55          60
Arg Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu
 65          70          75          80
Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe
 85          90          95
Cys Ala Gly Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser
 100         105         110
Gly Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe
 115         120         125
Gly Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn
 130         135         140
Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 145         150         155

```

```

<210> 173
<211> 1265
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1265)
<223> n = A,T,C or G

```

```

<400> 173
ggcagccgc actgcagcc ctggcaggcg gcaactgggtca tggaaaacga attgttctgc 60
tcgggcgtcc tgggtcatcc gcagtgggtg ctgtcagccg cacactgttt ccagaactcc 120
tacaccatcg ggctgggcct gcacagtctt gagggccgacc aagagccagg gagccagatg 180

```

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gaagtgagtt gagatcacac cactatactc cagctggggc aacagagtaa gactctgtct 1440  
caaaaaaaaa aaaaaaaaaa 1459

<210> 175  
<211> 1167  
<212> DNA  
<213> Homo sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(1167)  
<223> n = A,T,C or G

<400> 175  
ggcagccct ggcaggcggc actggtcatg gaaaacgaat tgtttctgctc gggcgctcctg 60  
gtgcatccgc agtgggtgct gtcagccgca cactgtttcc agaactccta caccatcggg 120  
ctgggcctgc acagtcttga ggccgaccaa gagccaggga gccagatggt ggaggccagc 180  
ctctccgtac ggcacccaga gtacaacaga ctcttgctcg ctaacgacct catgctcatc 240  
aagttggacg aatccgtgtc cgagtctgac accatccgga gcatcagcat tgcttcgcag 300  
tgccctaccg cggggaactc ttgctcgttn tctggctggg gtctgctggc gaacggcaga 360  
atgcctaccg tgctgcactg cgtgaacgtg tgggtggtgt ctgaggangt ctgcagtaag 420  
ctctatgacc cgctgtacca cccagcatg ttctgcgcgc ggcggaggga agaccagaag 480  
gactcctgca acggtgactc tggggggccc ctgatctgca acgggtactt gcagggcctt 540  
gtgtctttcg gaaaagcccc gtgtggccaa cttggcgtgc cagggtgtcta caccaacctc 600  
tgcaaattca ctgagtggat agagaaaacc gtccagncca gtttaactctg gggactggga 660  
acccatgaaa ttgaccccca aatacatcct gcggaangaa ttcaggaata tctgttccca 720  
gcccctcctc cctcaggccc aggagtccag gccccagcc cctcctcct caaaccaagg 780  
gtacagatcc ccagccctc ctccctcaga ccaggagtc cagaccccc agccctcnt 840  
centcagacc caggagtcca gcccctcctc cntcagagc aggagtccag accccccagc 900  
ccntcntccg tcagaccagc ggggtgcaggc ccccaacccc tcntcentca gagtcagagg 960  
tccaagcccc caacccctcg ttccccagac ccagaggtn cagggtccagc cctcctccc 1020  
tcagaccagc cgggtccaatg ccacctagan tntcctgta cacagtgcc ccttggtggca 1080  
ngttgaccca acctaccag ttgggttttc attttttgtc cctttccct agatccagaa 1140  
ataaagtnta agagaagcgc aaaaaaa 1167

<210> 176  
<211> 205  
<212> PRT  
<213> Homo sapien  
  
<220>  
<221> VARIANT  
<222> (1)...(205)  
<223> Xaa = Any Amino Acid

<400> 176  
Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp  
1 5 10 15  
Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu  
20 25 30  
Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val  
35 40 45  
Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Leu Leu Leu  
50 55 60

009060 " 090600

Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser  
65 70 75 80  
Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly  
85 90 95  
Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met  
100 105 110  
Pro Thr Val Leu His Cys Val Asn Val Ser Val Val Ser Glu Xaa Val  
115 120 125  
Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala  
130 135 140  
Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly  
145 150 155 160  
Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys  
165 170 175  
Ala Pro Cys Gly Gln Leu Gly Val Pro Gly Val Tyr Thr Asn Leu Cys  
180 185 190  
Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Xaa Ser  
195 200 205

<210> 177  
<211> 1119  
<212> DNA  
<213> Homo sapien

<400> 177  
gcgcaactcgc agccctggca ggcggcactg gtcattggaaa acgaattggt ctgctcgggc 60  
gtcctggtgc atccgcagtg ggtgctgtca gccgcacact gttccagaa ctctacacc 120  
atcgggctgg ccctgcacag tcttgaggcc gaccaagagc caggagacca gatggtggag 180  
gccagcctct ccgtacggca cccagagtac aacagaccct tgctcgctaa cgacctcatg 240  
ctcatcaagt tggacgaatc cgtgtccgag tctgacacca tccggagcat cagcattgct 300  
tcgcagtgcc ctaccgcggg gaactcttgc ctggtttctg gctggggtct gctggcgaac 360  
gatgctgtga ttgccatcca gtcccagact gtgggaggct gggagtgtga gaagctttcc 420  
caaccctggc agggttgtac catttcggca acttcagtg caaggacgtc ctgctgcac 480  
ctcactgggt gctcactact gctcactgca tcaccggaa cactgtgatc aactagccag 540  
caccatagtt ctccgaagtc agactatcat gattactgtg ttgactgtgc tgtctattgt 600  
actaaccatg ccgatgttta ggtgaaatta gcgtcacttg gcctcaacca tcttggtatc 660  
cagttatcct cactgaattg agatttcctg cttcagtgtc agccattccc acataatttc 720  
tgacctacag aggtgaggga tcatatagct cttcaaggat gctggtactc cctcacaaa 780  
ttcattttctc ctggtttagt gaaagggtgc cctctggag cctcccaggg tgggtgtgca 840  
ggtcacaatg atgaatgtat gatcgtgttc ccattacca aagccttta atccctcatg 900  
ctcagtacac cagggcaggc ctagcatttc ttcatttagt gtatgctgtc cattcatgca 960  
accacctcag gactcctgga ttctctgct agttgagctc ctgcatgctg cctccttggg 1020  
gaggtgaggg agagggccca tggttcaatg ggatctgtgc agttgtaaca cattaggtgc 1080  
ttaataaaca gaagctgtga tgtaaaaaa aaaaaaaaa 1119

<210> 178  
<211> 164  
<212> PRT  
<213> Homo sapien

<220>  
<221> VARIANT  
<222> (1)...(164)  
<223> Xaa = Any Amino Acid

009657279.090600

<400> 178  
 Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp  
 1 5 10 15  
 Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu  
 20 25 30  
 Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val  
 35 40 45  
 Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu Leu  
 50 55 60  
 Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser  
 65 70 75 80  
 Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly  
 85 90 95  
 Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Asp Ala Val  
 100 105 110  
 Ile Ala Ile Gln Ser Xaa Thr Val Gly Gly Trp Glu Cys Glu Lys Leu  
 115 120 125  
 Ser Gln Pro Trp Gln Gly Cys Thr Ile Ser Ala Thr Ser Ser Ala Arg  
 130 135 140  
 Thr Ser Cys Cys Ile Leu Thr Gly Cys Ser Leu Leu Leu Thr Ala Ser  
 145 150 155 160  
 Pro Gly Thr Leu

<210> 179  
 <211> 250  
 <212> DNA  
 <213> Homo sapien

<400> 179  
 ctggagtgcc ttggtgtttc aagccctgc aggaagcaga atgcaccttc tgaggcacct 60  
 ccagctgccc ccggccgggg gatgcgaggc tcggagcacc cttgcccggc tgtgattgct 120  
 gccaggcact gttcatctca gcttttctgt ccctttgctc ccggcaagcg cttctgctga 180  
 aagttcatat ctggagcctg atgtcttaac gaataaaggt cccatgctcc acccgaaaaa 240  
 aaaaaaaaaa 250

<210> 180  
 <211> 202  
 <212> DNA  
 <213> Homo sapien

<400> 180  
 actagtccag tgtggtggaa ttccattgtg ttggggcccaa cacaatggct acctttaaca 60  
 tcacccagac ccgccccctg ccgctgcccc acgctgctgc taacgacagt atgatgctta 120  
 ctctgctact cggaaactat ttttatgtaa ttaatgtatg ctttcttggt tataaatgcc 180  
 tgatttaaaa aaaaaaaaaa aa 202

<210> 181  
 <211> 558  
 <212> DNA  
 <213> Homo sapien

<220>

000000"000000



<220>  
 <221> misc\_feature  
 <222> (1)...(496)  
 <223> n = A,T,C or G

<400> 184  
 accgaattgg gaccgctggc ttataagcga tcatgtyynt ccrgtatcac ctcaacgagc 60  
 agggagatcg agtctatacg ctgaagaaat ttgacccgat gggacaacag acctgctcag 120  
 cccatcctgc tcggttctcc ccagatgaca aatactctsg acaccgaatc accatcaaga 180  
 aacgcttcaa ggtgctcatg acccagcaac cgcgccctgt cctctgaggg tcccttaaac 240  
 tgatgtcttt tctgccacct gttacccctc ggagactccg taaccaaact cttcggactg 300  
 tgagccctga tgcctttttg ccagccatac tctttggcat ccagtctctc gtggcgattg 360  
 attatgcttg tgtgaggcaa tcatggtggc atcaccata aagggaacac atttgacttt 420  
 tttttctcat attttaaatt actacmagaw tattwmagaw waaatgawtt gaaaaactst 480  
 taaaaaaaaa aaaaaa 496

<210> 185  
 <211> 384  
 <212> DNA  
 <213> Homo sapien

<400> 185  
 gctggtagcc tatggcgkkg cccacggagg ggctcctgag gccacggrac agtgacttcc 60  
 caagtatcyt gcgcsgcgtc ttctaccgtc cctacctgca gatcttcggg cagattcccc 120  
 aggaggacat ggacgtggcc ctcatggagc acagcaactg ytcgtcggag cccggcttct 180  
 gggcacaccc tcctggggcc caggcgggca cctgcgtctc ccagtatgcc aactggcttg 240  
 tgggtgctgt cctcgtcatc ttctgctcg tggccaacat cctgctggtc aacttgctca 300  
 ttgccatgtt cagttacaca ttcgggcaag tacagggcaa cagcgatctc tactgggaag 360  
 gcgcagcgtt accgcctcat ccgg 384

<210> 186  
 <211> 577  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(577)  
 <223> n = A,T,C or G

<400> 186  
 gagttagctc ctccacaacc ttgatgaggt cgtctgcagt ggcctctcgc ttcataccgc 60  
 tnccatcgtc atactgtagg tttgccacca cytcctggca tcttggggcg gcntaatatt 120  
 ccaggaaact ctcaatcaag tcaccgtcga tgaaacctgt gggctgggtc tgtcttcgcg 180  
 tcggtgtgaa aggatctccc agaaggagtg ctcgatcttc cccacacttt tgatgacttt 240  
 attgagtcga ttctgcatgt ccagcaggag gttgtaccag ctctctgaca gtgaggtcac 300  
 cagccctatc atgccgttga mcgtgccgaa garcaccgag ccttgtgtgg gggkkgaaat 360  
 ctacccaga ttctgcatta ccagagagcc gtggcaaaag acattgacaa actcgcccag 420  
 gtggaaaaag amcamctcct ggargtgctn gccgtctctc gtcmttggtt ggcagcgtw 480  
 tccttttgac acacaaacaa gttaaaggca ttttcagccc ccagaaantt gtcatcatcc 540  
 aagatntcgc acagcactna tccagttggg attaaat 577

<210> 187

005060" 5225960

```
<220>
<221> misc_feature
<222> (1) ... (482)
<223> n = A,T,C or G
```

```

<400> 189
tttttttttt tttgccgatn ctactatntt attgcaggan gtgggggtgt atgcaccgca      60
caccgggggt atnagaagca agaaggaagg agggagggca cagccccttg ctgagcaaca      120
aagccgcttg ctgccttctc tgtctgtctc ctggtgcagg cacatgggga gaccttcccc      180
aaggcagggg ccaccagtcg aggggtggga atacaggggg tgggagtgt gcataagaag      240
tgataggcac aggccacccg gtacagaccc ctgggtctct gacaggtnga tttcgaccag      300
gtcattgtgc cctgcccgag cacagcgtna atctggaaaa gacagaatgc tttccttttc      360
aaatttggct ngtcatngaa ngggcanttt tccaanttng gctnnggtct ggtacncttg      420
gttcggccca gctccnctgc caaaaantat tcaccnctt ccnaattgct tgcnggnccc      480
cc

```

```

<210> 190
<211> 471
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1) ... (471)
<223> n = A,T,C or G

```

```

<400> 190
tttttttttt ttttaaaaca gtttttcaca acaaaattta ttagaagaat agtgggtttg      60
aaaactctcg catccagtga gaactaccat acaccacatt acagctngga atgtntctca      120
aatgtctggt caaatgatac aatggaacca ttcaatctta cacatgcacg aaagaacaag      180
cgcttttgac atacaatgca caaaaaaaaa aggggggggg gaccacatgg attaaaattt      240
taagtactca tcacatacat taagacacag ttctagtoca gtcnaaaatc agaactgcnt      300
tgaaaaaatt catgtatgca atccaaccaa agaacttnat tggatgatcat gantnctcta      360
ctacatcnac cttgatcatt gccaggaacn aaaagttnaa ancaacnngt acaaaaaanaa      420
tctgtaattn anttcaacct ccgtacngaa aaatnttntt tatacactcc c              471

```

```

<210> 191
<211> 402
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1) ... (402)
<223> n = A,T,C or G

```

```

<400> 191
gagggattga aggtctgttc tastgtcggm ctgttcagcc accaactcta acaagttgct      60
gtcttcact cactgtctgt aagcttttta accagacwg tatcttcata aatagaacaa      120
attcttcacc agtcacatct tctaggacct ttttggtatc agttagtata agctcttcca      180
cttcctttgt taagacttca tctggtaaag tcttaagttt tgtagaaagg aattyaattg      240
ctcgttctct aacaatgtcc tctccttgaa gtatttgggt gaacaaccca cctaaagtcc      300
ctttgtgcat ccatttttaa tatacttaat agggcattgk tncactaggt taaattctgc      360
aagagtcate tgtctgcaaa agttgcgtta gtatatctgc ca              402

```

```

<210> 192
<211> 601
<212> DNA

```

009060"0225960

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(601)

<223> n = A,T,C or G

<400> 192

gagctcggat	ccaataatct	ttgtctgagg	gcagcacaca	tatncagtgc	catggnaact	60
ggtctacccc	acatgggagc	agcatgccgt	agntatataa	ggtcattccc	tgagtcagac	120
atgcytyttt	gaytaccgtg	tgccaagtgc	tggtgattct	yaacacacyt	ccatcccgyt	180
cttttgtgga	aaaactggca	cttktctgga	actagcarga	catcacttac	aaattcaccc	240
acgagacact	tgaaagggtg	aacaaagcga	ytcttgcat	gctttttgtc	cctccggcac	300
cagttgtcaa	tactaacccg	ctggtttgcc	tccatcacat	ttgtgatctg	tagctctgga	360
tacatctcct	gacagtactg	aagaacttct	tcttttggtt	caaaagcarg	tcttggtgcc	420
tggtggatca	ggttcccat	tcccagtcyg	aatgttcaca	tggcataatt	wacttcccac	480
aaaacattgc	gatttgaggc	tcagcaacag	caaatcctgt	tccggcattg	gctgcaagag	540
cctcgatgta	gccggccagc	gccaaaggcag	gcgccgtgag	ccccaccagc	agcagaagca	600
g						601

<210> 193

<211> 608

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(608)

<223> n = A,T,C or G

<400> 193

atacagccca	natcccacca	cgaagatgcg	cttgttgact	gagaacctga	tgcggtcact	60
ggtcccgtctg	tagccccagc	gactctccac	ctgctggaag	cggttgatgc	tgcactcytt	120
cccaacgcag	gcagmagcgg	gscgggtcaa	tgaactccay	tcgtggcttg	gggtkgacgg	180
tkaagtgcag	gaagaggctg	accacctcgc	ggtccaccag	gatgcccagc	tgtgcgggac	240
ctgcagcgaa	actcctcgat	ggatcatgagc	gggaagcgaa	tgaggcccag	ggccttgccc	300
agaaccttcc	gcctgttctc	tggcgtcacc	tgcagctgct	gccgctgaca	ctcggcctcg	360
gaccagcgga	caaacggert	tgaacagccg	cacctcacgg	atgcccagtg	tgctcgcgctc	420
caggammgsc	accagcgtgt	ccagggtcaat	gtcgggtgaag	ccctccgcgg	gtratggcgt	480
ctgcagtgtt	tttgtcgatg	ttctccaggc	acaggctggc	cagctgcggt	tcacgaaga	540
gtcgcgcttg	cgtgagcagc	atgaaggcgt	tgctggctcg	cagttcttct	tcaggaactc	600
cacgcaat						608

<210> 194

<211> 392

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(392)

<223> n = A,T,C or G

<400> 194

009060" 6.2.2.5.9.6.0



```
<220>
<221> misc_feature
<222> (1)...(492)
<223> n = A,T,C or G
```

```
<210> 198
<211> 478
<212> DNA
<213> Homo sapien
```

```
<210> 199
<211> 482
<212> DNA
<213> Homo sapien
```

```

<220>
<221> misc_feature
<222> (1)...(482)
<223> n = A,T,C or G

<400> 199
agtgacttgt cctccaacaa aacccttga tcaagtttgt ggcactgaca atcagacctt    60
tgctagtctc tgtcatctat tcgctactaa atgcagactg gaggggacca aaaagggggc    120
tcaactccag ctggattatt ttggagcctg caaatctatt cctacttgta cggactttga    180

```

```

agtgattcag tttcctctac ggatgagaga ctggctcaag aatatactca tgcagcttta      240
tgaagccnac tctgaacacg ctgggttatct nagatgagaa ncagagaaat aaagtcnaga      300
aaatttacct ggangaaaag aggcttttngg ctgggggacca tccattgaa ccttctctta      360
anggacttta agaanaaact accacatgtn tgtngtatcc tgggtgccngg ccgtttantg      420
aacntngacn ncaccttnt ggaatanant cttgacngcn tcctgaactt gtcctctctgc      480
ga                                                                                   482

```

```

<210> 200
<211> 270
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(270)
<223> n = A,T,C or G

```

```

<400> 200
cggccgcaag tgcaactcca gctggggcgcg tgcggacgaa gattctgcc a gcagttggtc      60
cgactgcgac gacggcgccg gcgacagtcg caggtgcagc gcggggcgct ggggtcttgc      120
aaggtgagc tgacgccgca gaggtcgtgt cacgtccac gaccttgacg ccgtcgggga      180
cagccggaac agagcccggt gaangcggga ggcctcgggg agccctcg ggaagggcggc      240
ccgagagata cgcaggtgca ggtggccgcg

```

```

<210> 201
<211> 419
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(419)
<223> n = A,T,C or G

```

```

<400> 201
tttttttttt ttttggaaac tactgcgagc acagcaggtc agcaacaagt ttattttgca      60
gctagcaagg taacagggta gggcatgggt acatgttcag gtcaacttcc tttgtcgtgg      120
ttgattgggt tgtctttatg ggggcggggg ggggtagggg aaancgaagc anaantaaca      180
tggagtgggt gcacctccc tgtagaacct gggtacnaaa gcttggggca gttcacctgg      240
tctgtgaccg tcattttctt gacatcaatg ttattagaag tcaggatata ttttagagag      300
tccactgtnt ctggaggag attagggttt cttgccaana tccaancaa atccacntga      360
aaaagttgga tgatncangt acngaatacc ganggcatan ttctcatant cggtggcca      419

```

```

<210> 202
<211> 509
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(509)
<223> n = A,T,C or G

```

```

<400> 202

```

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```
<220>
<221> misc_feature
<222> (1)...(545)
<223> n = A,T,C or G
```

```
<210> 206
<211> 487
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(487)
<223> n = A,T,C or G
```

```
<210> 207
<211> 332
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1) ... (332)
<223> n = A,T,C or G
```

<400> 207

```
<210> 208
<211> 524
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(524)
<223> n = A,T,C or G
```

```
<210> 209
<211> 159
<212> DNA
<213> Homo sapien
```

```
<210> 210
<211> 256
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(256)
<223> n = A,T,C or G
```

<400>	210					
actccctggc	agacaaaggc	agaggagaga	gctctgtag	ttctgtgttg	ttgaactgcc	60
actgaatttc	tttccacttg	gactattaca	tgccanttga	gggactaatg	gaaaaacgta	120
tggggagatt	ttanccaatt	tangtntgta	aatggggaga	ctggggcgagg	cgggagagat	180
ttgcagggtg	naaatgggan	ggctggtttg	ttanatgaac	agggacatag	gaggtaggca	240
ccaggatgct	aatatca					256

<210> 211  
 <211> 264  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(264)  
 <223> n = A,T,C or G

<400> 211  
 acattgtttt tttgagataa agcattgaga gagctctcct taacgtgaca caatggaagg 60  
 actggaacac ataccacat ctttgttctg agggataatt ttctgataaa gtcttgctgt 120  
 atattcaagc acatatgtta tatattattc agttccatgt ttatagccta gttaaggaga 180  
 ggggagatac attcngaaag aggactgaaa gaaatactca agtnggaaaa cagaaaaaga 240  
 aaaaaaggag caaatgagaa gcct 264

<210> 212  
 <211> 328  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(328)  
 <223> n = A,T,C or G

<400> 212  
 acccaaaaat ccaatgctga atatttggtt tcattattcc canattcttt gattgtcaaa 60  
 ggatttaatg ttgtctcagc ttgggcactt cagttaggac ctaaggatgc cagccggcag 120  
 gtttatatat gcagcaacaa tattcaagcg cgacaacagg ttattgaact tgcccggcag 180  
 ttnaatttca ttccattga cttgggatcc ttatcatcag ccagagagat tgaaaattta 240  
 ccctacnac tctttactct ctgganaggg ccagtgggtg tagctataag cttggccaca 300  
 ttttttttct ctttattcct ttgtcaga 328

<210> 213  
 <211> 250  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(250)  
 <223> n = A,T,C or G

<400> 213  
 acttatgagc agagcgacat atccnagtgt agactgaata aaactgaatt ctctccagtt 60  
 taaagcattg ctactgaag ggatagaagt gactgccagg agggaaagta agccaaggct 120  
 cattatgcca aagganatat acatttcaat tctccaaact tcttctcat tccaagagtt 180  
 ttcaatattt gcatgaacct gctgataanc catgttaana aacaaatata tctctnacct 240  
 tctcatcggt 250

<210> 214

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<211> 444  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (444)  
 <223> n = A,T,C or G

<400> 214  
 acccagaatc caatgctgaa tatttggtt cattattccc agattctttg attgtcaaag 60  
 gatttaatgt tgtctcagct tgggcacttc agttaggacc taaggatgcc agccggcagg 120  
 tttatatatg cagcaacaat attcaagcgc gacaacaggc tattgaactt gcccgccagt 180  
 tgaatttcat tcccattgac ttgggatcct tatcatcagc canagagatt gaaaatttac 240  
 ccctacgact ctttactctc tggagagggc cagtgggtgt agctataagc ttggccacat 300  
 ttttttttcc tttattcctt tgtcagagat gcgattcatc catatgctan aaaccaacag 360  
 agtgactttt acaaaattcc tataganatt gtgaataaaa ccttacctat agttgccatt 420  
 actttgctct ccctaataata cctc 444

<210> 215  
 <211> 366  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (366)  
 <223> n = A,T,C or G

<400> 215  
 acttatgagc agagcgacat atccaagtgt anactgaata aaactgaatt ctctccagtt 60  
 taaagcattg ctactgaag ggatagaagt gactgccagg agggaaagta agccaaggct 120  
 cattatgcca aagganatat acatttcaat tctccaaact tcttctcat tccaagagtt 180  
 ttcaatattt gcatgaacct gctgataagc catgttgaga aacaaatata tctctgacct 240  
 tctcatcggt aagcagaggc tgtaggcaac atggaccata gcgaanaaaa aacttagtaa 300  
 tccaagctgt tttctacact gtaaccaggc ttccaaccaa ggtggaaatc tcctatactt 360  
 ggtgcc 366

<210> 216  
 <211> 260  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (260)  
 <223> n = A,T,C or G

<400> 216  
 ctgtataaac agaactccac tgcangaggg agggccgggc caggagaatc tccgcttgtc 60  
 caagacaggg gcttaaggag ggtctccaca ctgctnntaa gggctnttnc atttttttat 120  
 taataaaaag tnnaaaaggc ctcttctcaa cttttttccc ttnggctgga aaatttaaaa 180  
 atcaaaaatt tctnaagtt ntcaagctat catatatact ntatcctgaa aaagcaacat 240  
 aattcttctt tccctccttt 260

<210> 217  
 <211> 262  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(262)  
 <223> n = A,T,C or G

<400> 217  
 acctacgtgg gtaagtttan aaatgttata atttcaggaa naggaacgca tataattgta 60  
 tcttgccat aattttctat tttaataagg aaatagcaaa ttgggggtggg gggaatgtag 120  
 ggcattctac agtttgagca aaatgcaatt aaatgtggaa ggacagcact gaaaaatttt 180  
 atgaataatc tgtatgatta tatgtctcta gagtagattt ataattagcc acttacccta 240  
 atatccttca tgcttgtaaa gt 262

<210> 218  
 <211> 205  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(205)  
 <223> n = A,T,C or G

<400> 218  
 accaaggtgg tgcattaccg gaantggatc aangacacca tcgtggccaa cccctgagca 60  
 cccctatcaa ctcccttttg tagtaaaactt ggaaccttgg aaatgaccag gccaaagactc 120  
 aggcctcccc agttctactg acctttgtcc ttangtntna ngcccagggt tgctaggaaa 180  
 anaaatcagc agacacaggt gtaaa 205

<210> 219  
 <211> 114  
 <212> DNA  
 <213> Homo sapien

<400> 219  
 tactgttttg tctcagtaac aataaatata aaaagactgg ttgtgttccg gccccatcca 60  
 accacgaagt tgatttctct tgtgtgcaga gtgactgatt ttaaaggaca tgga 114

<210> 220  
 <211> 93  
 <212> DNA  
 <213> Homo sapien

<400> 220  
 actagccagc acaaaaggca gggtagcctg aattgctttc tgctctttac atttctttta 60  
 aaataagcat ttagtgctca gtcctactg agt 93

<210> 221  
 <211> 167

009060 "BCE350

```
<220>
<221> misc_feature
<222> (1)...(167)
<223> n = A,T,C or G
```

```
<210> 222
<211> 351
<212> DNA
<213> Homo sapien
```

```
<210> 223
<211> 383
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(383)
<223> n = A,T,C or G
```

```
<210> 224
<211> 320
<212> DNA
<213> Homo sapien
```

<400> 224						
ccccctgaagg	cttcttggtta	gaaaatagta	cagttacaac	caataggaac	aacaaaaaga	60
aaaagtttgt	gacattgtag	tagggagtgt	gtaccctta	ctcccatca	aaaaaaaaat	120
ggatacatgg	ttaaaggata	raagggcaat	attttatcat	atgttctaaa	agagaaggaa	180

gagaaaatac	tacttttctc	aaatggaagc	ccttaaagggt	gcttttgatac	tgaaggacac	240
aaatgtggcc	gtccatcctc	ctttaragtt	gcatgacttg	gacacggtaa	ctgttgagct	300
tttaractcm	gcattgtgac					320

<210> 225  
 <211> 1214  
 <212> DNA  
 <213> Homo sapien

<400> 225						
gaggactgca	gcccgcactc	gcagccctgg	caggcgccac	tggtcatgga	aaacgaattg	60
ttctgctcgg	gcgtcctggg	gcatccgcag	tgggtgctgt	cagccgcaca	ctgtttccag	120
aactcctaca	ccatcgggct	gggcctgcac	agtcttgagg	ccgaccaaga	gccagggagc	180
cagatgggtg	agggcagcct	ctccgtacgg	cacccagagt	acaacagacc	cttgctcgct	240
aacgacctca	tgctcatcaa	gttggaacga	tccgtgtccg	agtctgacac	catccggagc	300
atcagcattg	cttcgcagtg	ccctaccgcg	gggaactctt	gcctcgtttc	tggctggggg	360
ctgctggcga	acggcagaat	gcctaccgtg	ctgcagtgcg	tgaacgtgtc	ggtgggtgtc	420
gaggaggtct	gcagtaagct	ctatgaccgg	ctgtaccacc	ccagcatgtt	ctgcgcccgg	480
ggagggcaag	accagaagga	ctcctgcaac	ggtgactctg	gggggcccct	gatctgcaac	540
gggtacttgc	agggccttgt	gtctttcgga	aaagcccctg	gtggccaagt	tggcgtgcca	600
ggtgtctaca	ccaacctctg	caaattcact	gagtggatag	agaaaaccgt	ccaggccagt	660
taactctggg	gactgggaac	ccatgaaatt	gacccccaaa	tacatcctgc	ggaaggaatt	720
caggaatatc	tggtcccagc	ccctcctccc	tcaggcccag	gagtccaggc	ccccagcccc	780
tcctccctca	aaccaagggt	acagatcccc	agccctcctc	ccctcagacc	caggagtcca	840
gacccccag	ccctcctccc	ctcagaccga	ggagtccagc	ccctcctccc	tcagaccag	900
gagtcacag	ccccagccc	ctcctcctc	agaccaggg	gtccaggccc	ccaacccctc	960
ctccctcaga	ctcagaggtc	caagccccca	acccctcctt	ccccagaccc	agaggtccag	1020
gtcccagccc	ctcctcctc	agaccagcgg	gtccaatgcc	acctagactc	tcctgtgaca	1080
cagtgcctcc	ttgtggcag	ttgacccaac	cttaccagtt	ggtttttcat	ttttgtccc	1140
tttcccttag	atccagaaat	aaagtctaag	agaagcgcaa	aaaaaaaaaa	aaaaaaaaaa	1200
aaaaaaaaaa	aaaa					1214

<210> 226  
 <211> 119  
 <212> DNA  
 <213> Homo sapien

<400> 226						
accagtatg	tgcagggaga	cggaacccca	tgtgacagcc	cactccacca	gggttcccaa	60
agaacctggc	ccagtcataa	tcattcatcc	tgacagtggc	aataatcacg	ataaccagt	119

<210> 227  
 <211> 818  
 <212> DNA  
 <213> Homo sapien

<400> 227						
acaattcata	gggacgacca	atgaggacag	ggaatgaacc	cggctctccc	ccagccctga	60
tttttgctac	atatgggggc	ccttttcatt	ctttgcaaaa	acactggggt	ttctgagaac	120
acggacgggt	cttagcacia	tttgtgaaat	ctgtgtaraa	ccgggctttg	caggggagat	180
aattttcctc	ctctggagga	aaggtgggtg	ttgacaggca	gggagacagt	gacaaggcta	240
gagaaagcca	cgctcggcct	tctctgaacc	aggatggaa	ggcagacccc	tgaaaacgaa	300
gcttgctccc	ttccaatcag	ccacttctga	gaacccccat	ctaacttctc	actggaaaag	360
agggcctcct	caggagcagt	ccaagagttt	tcaaagataa	cgtgacaact	accatctaga	420

ggaaaggggtg	caccctcagc	agagaagccg	agagcttaac	tctggtcggt	tccagagaca	480
acctgctggc	tgtcttggga	tgcgcccagc	ctttgagagg	ccactacccc	atgaacttct	540
gccatccact	ggacatgaag	ctgaggacac	tgggcttcaa	cactgagttg	tcatgagagg	600
gacaggtctt	gccctcaagc	cggctgaggg	cagcaaccac	tctcctcccc	tttctcacgc	660
aaagccattc	ccacaaatcc	agaccatacc	atgaagcaac	gagacccaaa	cagtttggtg	720
caagaggata	tgaggactgt	ctcagcctgg	ctttgggctg	acaccatgca	cacacacaag	780
gtccacttct	aggttttcag	cctagatggg	agtcgtgt			818

&lt;210&gt; 228

&lt;211&gt; 744

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 228

actggagaca	ctgttgaact	tgatcaagac	ccagaccacc	ccaggtctcc	ttcgtgggat	60
gtcatgacgt	ttgacatacc	tttggaaacga	gcctcctcct	tggaaagatgg	aagaccgtgt	120
tctgtggccga	cctggcctct	cctggcctgt	ttcttaagat	gcggagtcac	atttcaatgg	180
taggaaaagt	ggcttcgtaa	aatagaagag	cagtcactgt	ggaactacca	aatggcgaga	240
tgtctgggtgc	acattggggg	gctttgggat	aaaagattta	tgagccaact	attctctggc	300
accagattct	aggccagttt	gttccactga	agcttttccc	acagcagtcc	acctctgcag	360
gctggcagct	gaatggcttg	ccgggtggctc	tgtggcaaga	tcacactgag	atcgatgggt	420
gagaaggcta	ggatgcttgt	ctagtgttct	tagctgtcac	gttggctcct	tccaggttgg	480
ccagacgggtg	ttggccactc	ccttctaaaa	cacaggcgcc	ctcctggtga	cagtgaccgc	540
ccgtgggtatg	ccttggccca	ttccagcagt	cccagttatg	catttcaagt	ttgggggttg	600
ttcttttctgt	taatgttctt	ctgtgttgtc	agctgtcttc	atttctctggg	ctaagcagca	660
ttgggagatg	tggaccagag	atccactcct	taagaaccag	tggcgaaaga	cactttcttt	720
cttcactctg	aagtagctgg	tggt				744

&lt;210&gt; 229

&lt;211&gt; 300

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 229

cgagtctggg	ttttgtctat	aaagtttgat	ccctcctttt	ctcatccaaa	tcatgtgaac	60
cattacacat	cgaaataaaa	gaaaggtggc	agacttgccc	aacgccaggc	tgacatgtgc	120
tgcagggttg	ttgtttttta	attattattg	ttagaaacgt	caccacagct	ccctgttaat	180
ttgtatgtga	cagccaactc	tgagaaggtc	ctatttttcc	acctgcagag	gatccagtct	240
cactaggtct	ctccttgccc	tcacactgga	gtctccgcca	gtgtgggtgc	ccactgacat	300

&lt;210&gt; 230

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 230

cagcagaaca	aatacaata	tgaagagtgc	aaagatctca	taaaatctat	gctgaggaat	60
gagcgacagt	tcaaggagga	gaagcttgca	gagcagctca	agcaagctga	ggagctcagg	120
caatataaag	tcctggttca	cactcaggaa	cgagagctga	cccagttaag	ggagaagttg	180
cgggaaggga	gagatgcctc	cctctcattg	aatgagcatc	tccaggccct	cctcactccg	240
gatgaaccgg	acaagtccca	ggggcaggac	ctccaagaaa	cagacctcgg	ccgcgaccac	300
g						301

&lt;210&gt; 231

<400> 231

 $\langle 210 \rangle$  232

<211> 301

<212> DNA

<213> Homo sapien

<400> 232

<210> 233

<211> 301

<212> DNA

<213> Homo sapien

<400> 233

<210> 234

<211> 301

<212> DNA

<213> Homo sapien

<400> 234

<210> 235

<211> 283

<212> DNA

<213> Homo sapien

<400> 235

tggggctgtg	catcaggcgg	gtttgagaaa	tattcaattc	tcagcagaag	ccagaatttg	60
aattccctca	tcttttaggg	aatcatttac	caggtttgga	gaggattcag	acagctcagg	120
tgttttcaact	aatgtctctg	aacttctgtc	cctctttgtt	catggatagt	ccaataaata	180
atgttatctt	tgaactgatg	ctcataggag	agaatataag	aactctgagt	gatatcaaca	240
ttagggattc	aaagaaatat	tagatttaag	ctcacactgg	tca		283

<210> 236

<211> 301

<212> DNA

<213> Homo sapien

<400> 236

aggtcctcca	ccaactgcct	gaagcacggt	taaaattggg	aagaagtata	gtgcagcata	60
aatactttta	aatcgatcag	atttccctaa	cccacatgca	atcttcttca	ccagaagagg	120
tcgagacagc	atcattaata	ccaagcagaa	tgcgtaatag	ataaatacaa	tggtatatag	180
tgggtagacg	gcttcgatgag	tacagtgtac	tgtgggatcg	taatctggac	ttgggttgta	240
aagcatcgtg	taccagtcag	aaagcatcaa	tactcgacat	gaacgaatat	aaagaacacc	300
a						301

<210> 237

<211> 301

<212> DNA

<213> Homo sapien

<400> 237

cagtggtagt	ggtgggtggac	gtggcggttg	tcgtggtgcc	ttttttggtg	cccgtcacaa	60
actcaatttt	tgttcgctcc	tttttgccct	tttccaattt	gtccatctca	attttctggg	120
ccttggtata	tgcctcatag	taggagtcct	cagaccagcc	atggggatca	aacatatcct	180
ttgggtagtt	ggtgccaaagc	tcgtcaatgg	cacagaatgg	atcagcttct	cgtaaatacta	240
gggttccgaa	attcttttctt	ccttttgata	atgtagttca	tatccattcc	ctcctttatc	300
t						301

<210> 238

<211> 301

<212> DNA

<213> Homo sapien

<400> 238

gggcagggtt	tttttttttt	ttttttgatg	gtgcagaccc	ttgctttatt	tgtctgactt	60
gttcacagtt	cagccccctg	ctcagaaaac	caacgggcca	gctaaggaga	ggaggaggca	120
ccttgagact	tccggagtcg	aggctctcca	gggttcccca	gcccataaat	cattttctgc	180
acccccctgc	tgggaagcag	ctccctgggg	ggtgggaatg	ggtgactaga	agggatttca	240
gtgtgggacc	cagggctctgt	tcttcacagt	aggaggtgga	agggatgact	aatttcttta	300
t						301

<210> 239

<211> 239

<212> DNA

<213> Homo sapien

<400> 239



t

301

<210> 244  
 <211> 300  
 <212> DNA  
 <213> Homo sapien

<400> 244  
 gctggtttgc aagaatgaaa tgaatgattc tacagctagg acttaacctt gaaatggaaa 60  
 gtcattgcaat cccatttgca ggatctgtct gtgcacatgc ctctgtagag agcagcattc 120  
 ccagggacct tggaaacagt tgacactgta aggtgcttgc tccccaaagac acatcctaaa 180  
 aggtgttgta atggtgaaaa cgtcttcctt ctttattgcc ccttcttatt tatgtgaaca 240  
 actgtttgtc ttttgtgtat cttttttaa ctgtaaagtt caattgtgaa aatgaatatc 300

<210> 245  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 245  
 gtctgagtat ttaaaatggt attgaaatta tccccaacca atgttagaaa agaaagaggt 60  
 tatatactta gataaaaaat gaggtgaatt actatccatt gaaatcatgc tcttagaatt 120  
 aaggccagga gatattgtca ttaatgtara cttcaggaca ctagagtata gcagccctat 180  
 gttttcaaag agcagagatg caattaaata ttgttttagca tcaaaaaggc cactcaatac 240  
 agctaataaa atgaaagacc taatttctaa agcaattctt tataatttac aaagttttaa 300  
 g 301

<210> 246  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 246  
 ggtctgtcct acaatgctg cttcttgaaa gaagtcggca ctttctagaa tagctaaata 60  
 acctgggctt attttaaaga actatttgta gctcagattg gttttcctat ggctaaaata 120  
 agtgcttctt gtgaaaatta aataaaacag ttaattcaaa gccttgatat atgttaccac 180  
 taacaatcat actaaatata ttttgaagta caaagtttga catgctctaa agtgacaacc 240  
 caaatgtgtc ttacaaaaca cgttcctaac aaggatgtct ttacactacc aatgcagaaa 300  
 c 301

<210> 247  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 247  
 aggtcctttg gcagggctca tggatcagag ctcaaactgg agggaaaggc atttcgggta 60  
 gcctaagagg gcgactggcg gcagcacaac caaggaaggc aaggttggtt ccccccacgt 120  
 gtgtcctgtg ttcagggtgcg acacacaatc ctcatgggaa caggatcacc catgcgctgc 180  
 ccttgatgat caaggttggg gcttaagtgg attaagggag gcaagttctg gggtccttgc 240  
 cttttcaaac catgaagtca ggctctgtat ccctcctttt cctaactgat attctaacta 300  
 a 301

<210> 248

009060"626960

<211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 248  
 aggtccttgg agatgccatt tcagccgaag gactcttctw ttcggaagta caccctcact 60  
 attaggaaga ttcttagggg taatttttct gaggaaggag aactagccaa cttagaatt 120  
 acaggaagaa agtggtttgg aagacagcca aagaaataaa agcagattaa attgtatcag 180  
 gtacattcca gcctgttggc aactccataa aaacatttca gattttaatc ccgaatttag 240  
 ctaatgagac tggatttttg ttttttatgt tgtgtgtcgc agagctaaaa actcagttcc 300  
 c 301

<210> 249  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 249  
 gtccagagga agcacctggg gctgaactag gcttgccctg ctgtgaactt gcacttggag 60  
 ccctgacgct gctgttctcc ccgaaaaacc cgaccgacct ccgcgatctc cgtcccgccc 120  
 ccagggagac acagcagtga ctcagagctg gtgcacact gtgcctccct cctcaccgcc 180  
 catcgtaatg aattattttg aaaattaatt ccaccatcct ttcagattct ggatggaaag 240  
 actgaatctt tgactcagaa ttgtttgctg aaaagaatga tgtgactttc ttagtcattt 300  
 a 301

<210> 250  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 250  
 ggtctgtgac aaggacttgc aggctgtggg aggcaagtga cccttaacac tacacttctc 60  
 cttatcttta ttggcttgat aaacataatt atttctaaca ctagcttatt tccagttgcc 120  
 cataagcaca tcagtacttt tctctggctg gaatagtaaa ctaaagtatg gtacatctac 180  
 ctaaaagact actatgtgga ataatacata ctaatgaagt attacatgat ttaaagacta 240  
 caataaaacc aaacatgctt ataacattaa gaaaaacaat aaagatacat gattgaaacc 300  
 a 301

<210> 251  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 251  
 gccgaggtcc tacatttggc ccagtttccc cctgcatacct ctccagggcc cctgcctcat 60  
 agacaacctc atagagcata ggagaactgg ttgccctggg ggcaggggga ctgtctggat 120  
 ggcaggggtc ctcaaaaatg ccactgtcac tgccaggaaa tgcttctgag cagtacacct 180  
 cattgggatac aatgaaaagc ttcaagaaat cttcaggctc actctcttga aggcccgaa 240  
 cctctggagg ggggcagtgg aatcccagct ccaggacgga tctgtctgaa aagatatcct 300  
 c 301

<210> 252  
 <211> 301  
 <212> DNA

009050"04245900

<213> Homo sapien

<400> 252

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ttttctacat	tgtagaatca	agagtgtaaa	taaatgtata	tcgatgtctt	caagaatata	120
tcatttcctt	ttcactagga	acccattcaa	aatataagtc	aagaatctta	atatcaacaa	180
atatatcaag	caaactggaa	ggcagaataa	ctaccataat	ttagtataag	tacccaaagt	240
tttataaatc	aaaagcccta	atgataacca	tttttagaat	tcaatcatca	ctgtagaatc	300
a						301

<210> 253

<211> 301

<212> DNA

<213> Homo sapien

<400> 253

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caactaaaaa	aaaaaaataa	agaaaaaatg	tgctgcgttc	tgaaaaataa	ctccttagct	120
tggtctgatt	gttttcagac	cttaaaatat	aaacttggtt	cacaagcttt	aatccatgtg	180
gatttttttt	cttagagaac	cacaaaacat	aaaaggagca	agtcggactg	aatacctggt	240
tccatagtgc	ccacagggta	ttcctcacat	tttctccata	ggaaaaatgct	ttttcccaag	300
g						301

<210> 254

<211> 301

<212> DNA

<213> Homo sapien

<400> 254

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aacttgacca	attcccttga	agcgggtggg	ttaaaccctg	taaatgggaa	caaaatcccc	120
ccaaatctct	tcattcttacc	ctgggtggact	cctgactgta	gaattttttg	gttgaaacaa	180
gaaaaaaata	aagcttttga	cttttcaagg	ttgcttaaca	ggtactgaaa	gactggcctc	240
acttaaaactg	agccaggaaa	agctgcagat	ttattaatgg	gtgtgttagt	gtgcagtgcc	300
t						301

<210> 255

<211> 302

<212> DNA

<213> Homo sapien

<400> 255

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tggtgatttg	ttgagttctt	caagcatctc	ctaataccct	caagggcctg	agtagggggg	180
aggaaaaagg	actggagggtg	gaatctttat	aaaaaacaag	agtgattgag	gcagattgta	240
aacattatta	aaaaacaaga	aacaaacaaa	aaaatagaga	aaaaaaccac	cccaacacac	300
aa						302

<210> 256

<211> 301

<212> DNA

<213> Homo sapien

009657279-090600

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 256  
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 aggacctcc tccccacacc tcaatccacc aaaccatcca taatgcaccc agataggccc 120  
 acccccaaaa gcctggacac cttgagcaca cagttatgac caggacagac tcatctctat 180  
 agggcaaatag ctgctggcaa actggcatta cctggtttgt ggggatgggg gggcaagtgt 240  
 gtggcctctc ggctgggta gcaagaacat tcagggttagg cctaagttan tcgtgttagt 300  
 t 301

<210> 257  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 257  
 gttgtggagg aactctggct tgctcattaa gtcctactga ttttactat cccctgaatt 60  
 tccccactta tttttgtctt tcaactatcg aggccttaga agaggtctac ctgcctccag 120  
 tottacctag tccagtctac cccctggagt tagaatggcc atcctgaagt gaaaagtaat 180  
 gtcacattac tcccttcagt gatttcttgt agaagtgcc atccctgaat gccaccaaga 240  
 tottaattct cacatcttta atcttatctc tttgactcct ctttacaccg gagaaggctc 300  
 c 301

<210> 258  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 258  
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 agggggccag ccaccaggcg cagaagcaag ataaacagta ggctcaagac cagagccacc 120  
 cccagggcaa caagaatcca ataccaggac tgggcaaaat cttcaaagat cttaacactg 180  
 atgtctcggg cattgaggct gtcaataana cgctgatccc ctgctgtatg gtggtgtcat 240  
 tgggtgatccc tgggagcgcc ggtggagtaa cgttggtcca tggaaagcag cgcccacaac 300  
 t 301

<210> 259  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

009060" 6425960





&lt;400&gt; 267

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aaagagcaca ggccagctca gcctgccctg gccatctaga ctcagcctgg ctccatgggg      60
gttctcagtg ctgagtcctat ccaggaaaag ctcacctaga ccttctgagg ctgaatcttc      120
atcctcacag gcagcttctg agagcctgat attcctagcc ttgatgggtct ggagtaaagc      180
ctcattctga ttcctctcct tcttttcttt caagtgggtt ttcctcacat cctctgttc      240
aattcgcttc agcttgtctg ctttagcctt catttcaga agcttcttct ctttggcatc      300
t                                                                 301

```

&lt;210&gt; 268

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 268

```

aatgtctcac tcaactactt cccagcctac cgtggcctaa ttctgggagt tttcttctta      60
gatcttggga gagctgggtt ttctaaggag aaggaggaag gacagatgta actttggatc      120
tcgaagagga agtctaattg aagtaattag tcaacgggtc ttgttttagac tcttggaata      180
tgctgggtgg ctcagtgagc ctttttgag aaagcaagta ttattcttaa ggagtaacca      240
cttccattg ttctactttc taccatcatc aattgtatat tatgtattct ttggagaact      300
a                                                                 301

```

&lt;210&gt; 269

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 269

```

taacaatata cactagctat ctttttaact gtccatcatt agcaccaatg aagattcaat      60
aaaattacct ttattcacac atctcaaaac aattctgcaa attcttagtg aagtttaact      120
atagtcacag accttaaata ttcacattgt tttctatgtc tactgaaaat aagttcacta      180
cttttctgga tattctttac aaaatcttat taaaattcct ggtattatca cccccaatta      240
tacagtagca caaccacctt atgtagtttt tacatgatag ctctgtagaa gtttcacatc      300
t                                                                 301

```

&lt;210&gt; 270

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 270

```

cattgaagag cttttgcgaa acatcagaac acaagtgcct ataaaaattaa ttaagcctta      60
cacaagaata catattcctt ttatttctaa ggagttaaac atagatgtag ctgatgtgga      120
gagcttgctg gtgcagtgca tattggataa cactattcat ggccgaattg atcaagtcaa      180
ccaactcctt gaactggatc atcagaagaa ggggtggtgca cgatatactg cactagataa      240
tggaaccaacc aactaaattc tctcaccagg ctgtatcagt aaactggctt aacagaaaac      300
a                                                                 301

```

&lt;210&gt; 271

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

009060"6245950



```

cttatataact ctttctcaga ggcaaaagag gagatgggta atgtagacaa ttctttgagg      60
aacagtaaat gattattaga gagaangaat ggaccaagga gacagaaatt aacttgtaaa      120
tgattctctt tggaatctga atgagatcaa gaggccagct ttagcttggt gaaaagtcca      180
tctaggtatg gttgcattct cgtcttcttt tctgcagtag ataatgaggt aaccgaaggc      240
aattgtgctt cttttgataa gaagctttct tggtcatatc aggaaattcc aganaaagtc      300
c                                                                                   301

```

```

<210> 275
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 275
tcggtgtcag cagcacgtgg cattgaacat tgcaatgtgg agcccaaacc acagaaaatg      60
gggtgaaatt ggccaacttt ctattaactt atgttggtcaa ttttgccacc aacagtaagc      120
tggtcccttct aataaaaagaa aattgaaagg tttctcacta aacggaatta agtagtggag      180
tcaagagact cccaggcctc agcgtacctg cccgggcggc cgctcgaagc cgaattctgc      240
agatatccat cacactggcg gncgctcgan catgcatcta gaaggnccaa ttcgccttat      300
a                                                                                   301

```

```

<210> 276
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 276
tgtacacata ctcaataaat aaatgactgc attgtggtat tattactata ctgattatat      60
ttatcatgtg acttctaatt agaaaatgta tccaaaagca aaacagcaga tatacaaaat      120
taaagagaca gaagatagac attaacagat aaggcaactt atacattgag aatccaaatc      180
caatacattt aaacatttgg gaaatgaggg ggacaaatgg aagccagatc aaatttgtgt      240
aaaactattc agtatgtttc ctttgcttca tgtctgagaa ggctctcctt caatggggat      300
g                                                                                   301

```

```

<210> 277
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 277
tttgttgatg tcagtatttt attacttgcg ttatgagtgc tcacctggga aattctaaag      60
atacagagga cttggaggaa gcagagcaac tgaatttaat ttaaaagaag gaaaacattg      120
gaatcatggc actcctgata ctttcccaaa tcaacactct caatgcccc aacctgctct      180
caccatagtg gggagactaa agtggccacg gatttgcctt angtgtgcag tgcgttctga      240
gttcnctgtc gattacatct gaccagtctc ctttttccga agtcntccg ttcaatcttg      300

```

009060"6245550

c

301

<210> 278  
 <211> 301  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 278  
 taccactaca ctccagcctg ggcaacagag caagacctgt ctcaaagcat aaaatggaat 60  
 aacatatcaa atgaaacagg gaaaatgaag ctgacaattt atggaagcca gggcttgtca 120  
 cagtctctac tggttattatg cattacctgg gaatttatat aagcccttaa taataatgcc 180  
 aatgaacatc tcatgtgtgc tcacaatggt ctggcactat tataagtgtc tcacagggtt 240  
 tatgtgttct tcgtaacttt atggantagg tactcggccg cgaacacgct aagccgaatt 300  
 c 301

<210> 279  
 <211> 301  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 279  
 aaagcaggaa tgacaaagct tgcttttctg gtatgttcta ggtgtattgt gacttttact 60  
 gttatattaa ttgccaatat aagtaaatat agattatata tgtatagtgt ttcacaaagc 120  
 ttagaccttt accttcagc caccacacag tgcttgatat ttcagagtca gtcattgggt 180  
 atacatgtgt agttccaaag cacataagct agaanaanaa atatttctag ggagcactac 240  
 catctgtttt cacatgaaat gccacacaca tagaactcca acatcaattt cattgcacag 300  
 a 301

<210> 280  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 280  
 ggtactggag ttttcctccc ctgtgaaaac gtaactactg ttgggagtga attgaggatg 60  
 tagaaagggtg gtggaaccaa attgtggtca atggaaatag gagaatatgg ttctcactct 120  
 tgagaaaaaa acctaagatt agcccaggta gttgcctgta acttcagttt ttctgcctgg 180  
 gtttgatata gtttaggggt ggggttagat taagatctaa attacatcag gacaaagaga 240  
 cagactatta actccacagt taattaagga ggtatgttcc atgtttattt gttaaagcag 300  
 t 301

<210> 281  
 <211> 301  
 <212> DNA

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<213> Homo sapien

<400> 281

```
aggtacaaga aggggaatgg gaaagagctg ctgctgtggc attgttcaac ttggatattc    60
gccgagcaat ccaaatcctg aatgaagggg catcttctga aaaaggagat ctgaatctca    120
atgtggtagc aatggcttta tcgggttata cggatgagaa gaactccctt tggagagaaa    180
tgtgtagcac actgcgatta cagctaaata acccgatatt gtgtgtcatg tttgcatttc    240
tgacaagtga aacaggatct tacgatggag ttttgtatga aaacaaagtt gcagtacctc    300
g                                                                    301
```

<210> 282

<211> 301

<212> DNA

<213> Homo sapien

<400> 282

```
caggtactac agaattaaaa tactgacaag caagtagttt cttggcgtgc acgaattgca    60
tccagaaccc aaaaattaag aaattcaaaa agacattttg tgggcacctg ctagcacaga    120
agcgcagaag caaagcccag gcagaacat gctaacctta cagctcagcc tgcacagaag    180
cgcagaagca aagcccaggc agaaccatgc taaccttaca gctcagcctg cacagaagcg    240
cagaagcaaa gccccaggcag aacatgctaa ccttacagct cagcctgcac agaagcacag    300
a                                                                    301
```

<210> 283

<211> 301

<212> DNA

<213> Homo sapien

<400> 283

```
atctgtatag ggcagacaaa ctttatarag tgtagagagg tgagcgaaag gatgcaaaag    60
cactttgagg gctttataat aatatgctgc ttgaaaaaaa aaatgtgtag ttgatactca    120
gtgcatctcc agacatagta aggggttgct ctgaccaatc aggtgatcat tttttctatc    180
acttcccagg ttttatgcaa aaattttgtt aaattctata atggtgatat gcattcttta    240
ggaaacatat acatttttaa aaatctatct tatgtaagaa ctgacagacg aatttgcttt    300
g                                                                    301
```

<210> 284

<211> 301

<212> DNA

<213> Homo sapien

<400> 284

```
caggtacaaa acgctattaa gtggcttaga atttgaacat ttgtggtctt tatttacttt    60
gcttcgtgtg tgggcaaagc aacatcttcc ctaaatatat attaccaaga aaagcaagaa    120
gcagattagg tttttgacaa aacaaacagg ccaaaagggg gctgacctgg agcagagcat    180
ggtgagaggc aaggcatgag agggcaagtt tgttgtggac agatctgtgc ctactttatt    240
actggagtaa aagaaaacaa agttcattga tgtcgaagga tatatacagt gttagaaatt    300
a                                                                    301
```

<210> 285

<211> 301

<212> DNA

<213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 285  
 acatcacccat gatcggatcc cccacccatt atacgttgta tgtttacata aatactcttc 60  
 aatgatcatt agtgttttaa aaaaaaatact gaaaactcct tctgcatccc aatctctaac 120  
 caggaaagca aatgctatct acagacctgc aagccctccc tcaaacnaaa ctatttctgg 180  
 attaaatatg tctgacttct tttgaggcca cagcactagg caaatgctat ttacgatctg 240  
 caaaagctgt ttgaagagtc aaagccccc tgtgaacacg atttctggac cctgtaacag 300  
 t 301

<210> 286  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 286  
 taccactgca ttccagcctg ggtgacagag tgagactccg tctccaaaaa aaactttgct 60  
 tgtatattat ttttgccctta cagtggatca ttctagtagg aaaggacagt aagatttttt 120  
 atcaaaatgt gtcatgccag taagagatgt tatattcttt tctcatttct tccccaccca 180  
 aaaataagct accatatagc ttataagtct caaatttttg ctttttacta aaatgtgatt 240  
 gtttctgttc attgtgtatg cttcatcacc tatattaggc aaattccatt ttttcccttg 300  
 t 301

<210> 287  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 287  
 tacagatctg ggaactaaat attaaaaatg agtgtggctg gatatatgga gaatgttggg 60  
 ccagaaagga acgtagagat cagatattac aacagctttg ttttgagggg tagaaatatg 120  
 aaatgatttg gttatgaacg cacagttagg gcagcagggc cagaatcctg accctctgcc 180  
 ccgtgggtat ctctcccca gcttggtgc ctcagtgtat cacagtattc cattttgttt 240  
 gttgcatgtc ttgtgaagcc atcaagattt tctcgtctgt tttcctctca ttggtaatgc 300  
 t 301

<210> 288  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 288  
 gtacaccta ctgcaaggac agctgaggaa tgtaatgggc agccgctttt aaagaagtag 60  
 agtcaatagg aagacaaatt ccagttccag ctcagtctgg gtatctgcaa agctgcaaaa 120  
 gatctttaa gacaatttca agagaatatt tccttaaagt tggcaatttg gagatcatac 180  
 aaaagcatct gcttttgtga ttttaatttag ctcactctgg cactggaaga atccaaacag 240  
 tctgccttaa ttttgatga atgcatgatg gaaattcaat aatttagaaa gttaaaaaaa 300  
 a 301

<210> 289  
 <211> 301

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```
<220>  
<221> misc_feature  
<222> (1) ... (301)  
<223> n = A,T,C or G
```

```
<210> 290
<211> 301
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G
```

```
<210> 291
<211> 301
<212> DNA
<213> Homo sapien
```

```
<210> 292
<211> 301
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc feature
```

<222> (1)...(301)  
 <223> n = A,T,C or G

<400> 292  
 accttttagt agtaatgtct aataataaat aagaaatcaa ttttataagg tccatatagc 60  
 tgtattaaat aatttttaag tttaaaagat aaaataccat catttttaaat gttggtattc 120  
 aaaaccaaag natataaccg aaaggaaaaa cagatgagac ataaaaatgat ttgcnagatg 180  
 ggaaatatag tasttyatga atgttnatta aattccagtt ataatagtgg ctacacactc 240  
 tcactacaca cacagacccc acagtcctat atgccacaaa cacattttcca taacttgaaa 300  
 a 301

<210> 293  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 293  
 ggtaccaagt gctggtgccg gcttggtacc tgttctcact gaaaagtctg gctaattgctc 60  
 ttgtgtagtc acttctgatt ctgacaatca atcaatcaat ggcttagagc actgactgtt 120  
 aacacaaacg tcactagcaa agtagcaaca gctttaagtc taaatacaaaa gctggttctgt 180  
 gtgagaattt tttaaaaggc tacttgtata ataacccttg tcatttttaa tgtacctcgg 240  
 ccgcgaccac gctaagccga attctgcaga tatccatcac actggcggcc gctcgagcat 300  
 g 301

<210> 294  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 294  
 tgaccataa caatatacac tagctatctt ttttaactgtc catcattagc accaatgaag 60  
 attcaataaa attaccttta ttcacacatc tcaaaacaat tctgcaaatt cttagtgaag 120  
 ttttaactata gtcacaganc ttaaataatc acattgtttt ctatgtctac tgaaaaataag 180  
 ttcactactt ttctgggata ttcttttcaa aatcttatta aaattcctgg tattatcacc 240  
 cccaattata cagtagcaca accaccttat gtagttttta catgatagct ctgtagaggt 300  
 t 301

<210> 295  
 <211> 305  
 <212> DNA  
 <213> Homo sapien

<400> 295  
 gtactctttc tctccctcc tctgaattta attctttcaa cttgcaattt gcaaggatta 60  
 cacatttcac tgtgatgtat attgtgttgc aaaaaaaaaa gtgtctttgt ttaaaattac 120  
 ttggtttgtg aatccatctt gctttttccc cattggaact agtcattaac ccatctctga 180  
 actggtagaa aaacrtctga agagctagtc tatcagcatc tgacagggtga attggatggt 240  
 ttcagaacc atttcacca gacagcctgt ttctatcctg ttttaataaat tagtttgggt 300  
 tctct 301

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<210> 296  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 296  
 aggtactatg ggaagctgct aaaataatat ttgatagtaa aagtatgtaa tgtgctatct 60  
 cacctagtag taaactaaaa ataaactgaa actttatgga atctgaagtt attttccttg 120  
 attaaataga attaataaac caatatgagg aaacatgaaa ccatgcaatc tactatcaac 180  
 ttgaaaaag tgattgaacg aaccacttag ctttcagatg atgaacactg ataagtcatt 240  
 tgtcattact ataaatttta aaatctgtta ataagatggc ctatagggag gaaaaagggg 300  
 c 301

<210> 297  
 <211> 300  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (300)  
 <223> n = A,T,C or G

<400> 297  
 actgagtttt aactggacgc caagcaggca aggctggaag gttttgctct ctttgtgcta 60  
 aaggttttga aaaccttgaa ggagaatcat ttgacaaga agtacttaag agtctagaga 120  
 acaaagangt gaaccagctg aaagctctcg ggggaanctt acatgtgttg ttaggcctgt 180  
 tccatcattg ggagtgcact ggccatccct caaaatttgt ctgggctggc ctgagtgggc 240  
 accgcacctc ggccgcgacc acgctaagcc gaattctgca gatatccatc acactggcgg 300

<210> 298  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (301)  
 <223> n = A,T,C or G

<400> 298  
 tatggggttt gtcacccaaa agctgatgct gagaaaggcc tccctggggc cctcccgcg 60  
 ggcactctgag agacctggtg ttccagtgtt tctggaaatg ggtcccagtg ccgccggctg 120  
 tgaagctctc agatcaatca cgggaagggc ctggcggttg tggccacctg gaaccacct 180  
 gtccctgtctg ttacatttc actaycaggt tttctctggg cattacnatt tgttccccta 240  
 caacagtgac ctgtgcattc tgctgtggcc tgctgtgtct gcaggtggct ctcagcgagg 300  
 t 301

<210> 299  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 299  
 gttttgagac ggagtttcac tcttggtgcc cagactggac tgcaatggca ggggtctctgc 60  
 tcaactgcacc ctctgcctcc caggttcgag caattctcct gcctcagcct cccaggtagc 120  
 tgggattgca ggctcacgcc accataccca gctaattttt ttgtattttt agtagagacg 180  
 gagtttcgcc atgttggeca gctggtctca aactcctgac ctcaagcgac ctgcctgcct 240  
 cggcctccca aagtgtgga attataggca tgagtcaaca cgcccagcct aaagatattt 300  
 t 301

<210> 300  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 300  
 attcagtttt atttgcctgcc ccagtatctg taaccaggag tgccacaaaa tcttgccaga 60  
 tatgtccac acccactggg aaaggctccc acctggctac ttctctatc agctgggtca 120  
 gctgcattcc acaagggttct cagcctaata agtttacta cctgccagtc tcaaaactta 180  
 gtaaagcaag accatgacat tccccacgg aaatcagagt ttgcccacc gtcttggtac 240  
 tataaagcct gcctctaaca gtccttgctt cttcacacca atcccagagc catcccccat 300  
 g 301

<210> 301  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 301  
 ttaaattttt gagaggataa aaaggacaaa taatctagaa atgtgtcttc ttcagtctgc 60  
 agaggacccc aggtctccaa gcaaccacat ggtcaagggc atgaataatt aaaagttggt 120  
 gggaactcac aaagaccctc agagctgaga caccacaaac agtgggagct cacaaagacc 180  
 ctgagagctg agacacccac aacagtggga gctcaciaag accctcagag ctgagacacc 240  
 cacaacagca cctcgttcag ctgccacatg tgtgaataag gatgcaatgt ccagaagtgt 300  
 t 301

<210> 302  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 302  
 aggtacacat ttagcttggt gtaaatgact cacaaaactg attttaaaat caagttaatg 60  
 tgaattttga aaattactac ttaatcctaa ttcacaataa caatggcatt aaggtttgac 120  
 ttgagttggt tcttagtatt atttatggta aataggctct taccacttg aaataactgg 180  
 ccacatcatt aatgactgac ttcccagtaa ggctctctaa ggggtaagta ggaggatcca 240  
 caggatttga gatgctaagg ccccagagat cgtttgatcc aaccctctta ttttcagagg 300  
 g 301

<210> 303  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 303  
 aggtaccaac tgtggaaata ggtagaggat cattttttct ttccatatca actaagttgt 60

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```

attgaggaat gatacttgag cccaaagagc attcaatcat tgttttattt gccttmtttt 180
cacaccattg gtgaggagg gattaccacc ctggggttat gaagatgggt gaacacccca 240
cacatagcac cggagatatg agatcaacag tttcttagcc atagagattc acagcccaga 300
gcaggaggac gcttgccacac catgcaggat gacatggggg atgcgctcgg gattgggtgtg 360
aagaagcaag gactgttaga ggcaggcttt atagtaacaa gacgggtgggg caaactctga 420
tttccgtggg ggaatgtcat ggtcttgctt tactaaagttt tgagactggc aggtagtga 480
actcattagg ctgagaacct tgtggaatgc acttgaccca sctgatagag gaagtagcca 540
ggtggggagcc tttcccagtg ggtgtgggac atatctggca agattttgtg gcactcctgg 600
ttacagatac tggggcagca aataaaactg aatcttg 637

```

<210> 308

<211> 647

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(647)

<223> n = A,T,C or G

<400> 308

```

acgattttca ttatcatgta aatcgggtca ctcaaggggc caaccacagc tgggagccac 60
tgctcagggg aaggttcata tgggactttc tactgcccac gggtctatac aggatataaa 120
ggngcctcac agtatagatc tggtagcaaa gaagaagaaa caaacactga tctctttctg 180
ccacccctct gacccttttg aactcctctg accctttaga acaagcctac ctaatatctg 240
ctagagaaaa gaccaacaac ggctcaaaag gatctcttac catgaaggtc tcagctaatt 300
cttgggctaag atgtgggttc cacattaggt tctgaatatg gggggaaggg tcaatttgct 360
cattttgtgt gtggataaag tcaggatgcc caggggccag agcagggggc tgcttgcttt 420
gggaacaatg gctgagcata taaccatagg ttatggggaa caaaacaaca tcaaagtcac 480
tgtatcaatt gccatgaaga cttgagggac ctgaatctac cgattcatct taaggcagca 540
ggaccagttt gagtggcaac aatgcagcag cagaatcaat ggaaacaaca gaatgattgc 600
aatgtccttt tttttctcct gcttctgact tgataaaagg ggaccgt 647

```

<210> 309

<211> 460

<212> DNA

<213> Homo sapien

<400> 309

```

actttatagt ttaggctgga cattggaaaa aaaaaaagc cagaacaaca tgtgatagat 60
aatatgattg gctgcacact tccagactga tgaatgatga acgtgatgga ctattgtatg 120
gagcacatct tcagcaagag ggggaaatac tcatcatttt tggccagcag ttgtttgatc 180
accaaacatc atgccagaat actcagcaaa cttcttagc tcttgagaag tcaaagtcgc 240
ggggaattta ttcttgcaa ttttaattgg actccttatg tgagagcagc ggctaccag 300
ctgggggtgt ggagcgaacc cgtcactagt ggacatgcag tggcagagct cctggtaacc 360
acctagagga atacacaggc acatgtgtga tgccaagcgt gacacctgta gcactcaaat 420
ttgtcttggt tttgtctttc ggtgtgtaag attcttaagt 460

```

<210> 310

<211> 539

<212> DNA

<213> Homo sapien

<400> 310

```

acgggactta tcaaataaag ataggaaaag aagaaaactc aaatattata ggcagaaatg      60
ctaaagggtt taaaatatgt caggattgga agaaggcatg gataaagaac aaagttcagt    120
taggaaagag aaacacagaa ggaagagaca caataaaagt cattatgtat tctgtgagaa    180
gtcagacagt aagatttgtg ggaaatgggt tggtttgttg tatggtatgt attttagcaa    240
taatctttat ggcagagaaa gctaaaatcc tttagcttgc gtgaatgatc acttgctgaa    300
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ctagatagaa agccttagta tactcagcta ggaatagtga ttctgagggc aactgtgac     420
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```

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<210> 311
<211> 526
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(526)
<223> n = A,T,C or G

```

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<400> 311
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catttacagc atttaaaatg tgttcagcat gaaatattag ctacagggga agctaaataa    180
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tctctttaca gggagctcct gcagccccta cagaaatgag tggctgagat tcttgattgc    420
acagcaagag cttctcatct aaaccctttc cctttttagt atctgtgtat caagtataaa    480
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```

```

<210> 312
<211> 500
<212> DNA
<213> Homo sapien

```

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<220>
<221> misc_feature
<222> (1)...(500)
<223> n = A,T,C or G

```

```

<400> 312
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ccatttctct ttccttcca cctgccagtt ttgctgactc tcaacttgct atgagtgtaa    180
gcattaagga cattatgctt cttcgattct gaagacaggc cctgctcatg gatgactctg    240
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tgcagatgtc tagcagcttc agacatttgg ttaagaaccc atgggaaaaa aaaaaatcct    360
tgetaatgtg gtttcttttg taaaccanga ttcttatttg nctggtatag aatatcagct    420
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<210> 313
<211> 718

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<400>	313							
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a t a c a	g a g g t g a g a a	a t a a g a a a g g	c t g c t g a c t t	t a c c a t c t g a	g g c c a c a c a t		120	
g a a a t	g g a g a t a a t t	a a c a t c a c t a	g a a a c a g c a a	g a t g a c a a t a	t a a t g t c t a a		180	
g a c a t	g t t t t t g c a c	a t t t c c a g c c	c t t t t a a a t a	t c a c a c a c a	c a g g a a g c a c		240	
g a a g c	a c a g a g a t c c	c t g g g a g a a a	t g c c c g g c c g	c c a t c t t g g g	t c a t c g a t g a		300	
g c c c t	g t g c c t g n t c	c e g c t t g t g a	g g g a a g g a c a	t t a g a a a a t g	a a t t g a t g t g		360	
c a a a g	g a t g g c a g g a	a a a c a g a t c c	t g t t g t g g a t	a t t t a t t t g a	a c g g g a t t a c		420	
c g a a a	t g a a g t c a c a	a a g t g a g c a t	t a c c a a t g a g	a g g a a a a c a g	a c g a g a a a a t		480	
c g g t t	c a c a a g a c a t	g c a a c a a a c a	a a a t g g a a t a	c t g t g a t g a c	a c g a g a c a g c		540	
g g g a g	g a g a t a c c a c	g g g g c a g a g g	t c a g g a t t c t	g g c c c t g c t g	c c t a a c t g t g		600	
c a c c a	a t c a t t t t c t a	t t t c t a c c t t	c a a a c a a g c t	g t n g a a t a t c	t g a c t t a c g g		660	
t g q c	c c a c a t t t t c	a t n a t e c c a c	c e n t e n t t t t	a a n n t t a n t c	c a a a n t g t		718	

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tggt	agatctcttg	tcttattctt	ttgtctataa	tactgtattg	tgtagtccaa		180
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tgatt	gtcgaactgt	agtgcctctg	attttgcttc	tgtctgtgaa	tctgtgtgct		300
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ccatt	ctgaagatgt	ctggaacctc	taccagcagg	atgatgatag	ccccaatgac		180
ccagc	tccccgacca	gccggatatc	gtccttaggg	gtcatgtagg	cttcctgaag		240
ctctg	tgtaagaggg	gtttgtcccc	ggggctcgtg	cggttatttg	tctctgggctt		300
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 <211> 151  
 <212> DNA  
 <213> Homo sapien

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 ccagggtctt gttcttgcca cacctgcttg a 151

<210> 318  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

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<210> 319  
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<210> 321  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

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009060-090600

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 <212> DNA  
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 <221> misc\_feature  
 <222> (1)...(151)  
 <223> n = A,T,C or G

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 attgtgcagg gctcgttca nacttcagt t 151

<210> 323  
 <211> 151  
 <212> DNA  
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 gttcaatyaa aaagacactt ancccatgtg g 151

<210> 324  
 <211> 461  
 <212> DNA  
 <213> Homo sapien

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 <222> (1)...(461)  
 <223> n = A,T,C or G

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<210> 325  
 <211> 400  
 <212> DNA  
 <213> Homo sapien

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			20					25					30		
Leu	Ser	Ala	Ala	His	Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly	Leu	Gly
		35					40					45			
Leu	His	Ser	Leu	Glu	Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met	Val	Glu
	50					55					60				
Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg	Pro	Leu	Leu	Ala
65					70					75					80

Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp  
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 Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn  
                   100                  105                  110  
 Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met Pro  
                   115                  120                  125  
 Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu Val Cys  
                   130                  135                  140  
 Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala Gly  
 145                  150                  155                  160  
 Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro  
                   165                  170                  175  
 Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys Ala  
                   180                  185                  190  
 Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu Cys Lys  
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<210> 329  
 <211> 77  
 <212> PRT  
 <213> Homo sapien

<400> 329  
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                   20                  25                  30  
 Phe Cys Ser Gly Val Leu Val His Pro Gln Trp Val Leu Ser Ala Thr  
                   35                  40                  45  
 His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly Leu His Ser Leu  
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 Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu Ala  
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 <211> 70  
 <212> DNA  
 <213> Homo sapien

<400> 330  
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005060" 5225960

gctgcagcca

70

<210> 331  
 <211> 22  
 <212> PRT  
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<400> 331  
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 Val Ser Gly Ser Cys Ser  
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<210> 332  
 <211> 2507  
 <212> DNA  
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&lt;211&gt; 3030

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 333

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<210> 335  
 <211> 2984  
 <212> DNA  
 <213> Homo sapien

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<210> 336  
 <211> 147  
 <212> PRT  
 <213> Homo sapien

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<400> 336
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          20          25          30
Pro Lys Gln Pro Gln Lys Arg Ser Arg Ala Ala Phe Ser His Thr Gln
          35          40          45
Val Ile Glu Leu Glu Arg Lys Phe Ser His Gln Lys Tyr Leu Ser Ala
          50          55          60
Pro Glu Arg Ala His Leu Ala Lys Asn Leu Lys Leu Thr Glu Thr Gln
          65          70          75          80
Val Lys Ile Trp Phe Gln Asn Arg Arg Tyr Lys Thr Lys Arg Lys Gln
          85          90          95
Leu Ser Ser Glu Leu Gly Asp Leu Glu Lys His Ser Ser Leu Pro Ala
          100          105          110
Leu Lys Glu Glu Ala Phe Ser Arg Ala Ser Leu Val Ser Val Tyr Asn
          115          120          125
Ser Tyr Pro Tyr Tyr Pro Tyr Leu Tyr Cys Val Gly Ser Trp Ser Pro
          130          135          140
Ala Phe Trp
145

```

<210> 337  
 <211> 9  
 <212> PRT  
 <213> Homo sapien

```

<400> 337
Ala Leu Thr Gly Phe Thr Phe Ser Ala
  1          5

```

<210> 338  
 <211> 9  
 <212> PRT  
 <213> Homo sapien

```

<400> 338
Leu Leu Ala Asn Asp Leu Met Leu Ile
  1          5

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009060"6225960





<210> 344  
 <211> 536  
 <212> DNA  
 <213> Homo sapien

<400> 344  
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 gtttaggggg atgccaagga taaggccagc tcagttatat gaagagaagc agaacaaaca 180  
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 caactaacct gccactaata gttatgtcat ccctcttatt aatcatcatc ctagccctaa 480  
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<210> 345  
 <211> 251  
 <212> DNA  
 <213> Homo sapien

<400> 345  
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 gcgtgggcca ggaaatcaca tcctacactg cccaggagcc agacacattt atggaacaga 180  
 aaataacata tcggatttgg agagacactg ccaactggct ggagattaat ccggacactg 240  
 gtgccatttc c 251

<210> 346  
 <211> 282  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(282)  
 <223> n = A,T,C or G

<400> 346  
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 agggagacta tacctggctc ttgccctaag tgagaggtct tcctccccgc accaaaaaat 180  
 agaaaggctt tctatttcac tggcccaggt agggggaagg agagtaactt tgagtctgtg 240  
 ggtctcattt cccaagggtgc cttcaatgct catnaaaacc aa 282

<210> 347  
 <211> 201  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(201)  
 <223> n = A,T,C or G

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<210> 348
<211> 251
<212> DNA
<213> Homo sapien
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```
<210> 349
<211> 251
<212> DNA
<213> Homo sapien
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<210> 350
<211> 908
<212> DNA
<213> Homo sapien
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aatcgcaq							908





```
<210> 358
<211> 630
<212> DNA
<213> Homo sapien
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```
<210> 359
<211> 620
<212> DNA
<213> Homo sapien
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```
<210> 360
<211> 431
<212> DNA
<213> Homo sapien
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<400> 360						
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<210> 364  
 <211> 401  
 <212> DNA  
 <213> Homo sapien

<400> 364  
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 tgagaaagct caattataga tgcaaagtta taactaaact actatagtag taaagaaata 240  
 catttcacac ctttcatata aattcactat cttggcttga ggcactccat aaaatgtatc 300  
 acgtgcatag taaatcttta tatttgctat ggcgttgcac tagaggactt ggactgcaac 360  
 aagtggatgc gcggaaaatg aaatcttctt caatagccca g 401

<210> 365  
 <211> 356  
 <212> DNA  
 <213> Homo sapien

<400> 365  
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 taccagagca tcaagtctct gcagcaggtc attcttgggt aaagaaatga cttccacaaa 180  
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 gactgtcacg atgtgtatag tacagtttga caagcctggg tccatacaga ccgctggaga 300  
 acattcgga atgtccctt tgtagccagt ttcttcttcg agtccccga gagcag 356

<210> 366  
 <211> 1851  
 <212> DNA  
 <213> Homo sapien

<400> 366  
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&lt;211&gt; 1853

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 369

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&lt;210&gt; 370

&lt;211&gt; 2184

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 370

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&lt;210&gt; 372

&lt;211&gt; 1059

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 372

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&lt;210&gt; 373

&lt;211&gt; 1155

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 373

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&lt;210&gt; 374

&lt;211&gt; 2000

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 374

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 <212> DNA  
 <213> Homo sapien

<400> 375						
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<210> 376  
 <211> 329

&lt;212&gt; PRT

<213> Homo sapien

<400> 376

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Leu	His	Leu	Ala 20	Gly	Ser	Asp	Leu	Leu	Ser 25	Arg	Ser	Leu	Met 30	Ala	Glu
Glu	Tyr	Thr	Ile 35	Val	His	Ala	Ser	Phe	Ile 40	Ser	Cys	Ile	Ser 45	Ser	Ser
Leu	Asp	Gly	Gln 50	Gly	Glu	Arg	Gln	Glu	Gln 55	Arg	Gly	His	Phe 60	Trp	Arg
Pro 65	Gln	Arg	Leu	Leu	Cys 70	Glu	Asp	Ala	Trp 75	Glu	Gln	Glu	Val 80	Gln	Val
Val	Leu	Pro	Leu 85	Leu	Pro	Leu	Leu	Gln	Gly 90	Ser	Gly	Lys	Ser 95	Asn	Val
Val	Ala	Trp	Gly 100	Asp	Tyr	Asp	Asp	Ser 105	Ala	Phe	Met	Asp 110	Pro	Arg	Tyr
His	Val	His	Gly 115	Glu	Asp	Leu	Asp	Lys 120	Leu	His	Arg	Ala 125	Ala	Trp	Trp
Gly	Lys 130	Val	Pro	Arg	Lys	Asp 135	Leu	Ile	Val 140	Met	Leu	Arg	Asp	Thr	Asp
Val 145	Asn	Lys	Arg	Asp	Lys 150	Gln	Lys	Arg	Thr 155	Ala	Leu	His	Leu	Ala	Ser
Ala	Asn	Gly	Asn 165	Ser	Glu	Val	Val	Lys 170	Leu	Val	Leu	Asp 175	Arg	Arg	Cys
Gln	Leu	Asn	Val 180	Leu	Asp	Asn	Lys	Lys 185	Arg	Thr	Ala	Leu 190	Thr	Lys	Ala
Val	Gln 195	Cys	Gln	Glu	Asp	Glu	Cys 200	Ala	Leu	Met	Leu	Leu 205	Glu	His	Gly
Thr	Asp 210	Pro	Asn	Ile	Pro	Asp 215	Glu	Tyr	Gly 220	Asn	Thr	Thr	Leu	His	Tyr
Ala 225	Val	Tyr	Asn 230	Glu	Asp	Lys	Leu	Met	Ala 235	Lys	Ala	Leu	Leu	Leu	Tyr
Gly	Ala	Asp	Ile 245	Glu	Ser	Lys	Asn	Lys 250	His	Gly	Leu	Thr 255	Pro	Leu	Leu
Leu	Gly	Ile	His 260	Glu	Gln	Lys	Gln	Gln 265	Val	Val	Lys	Phe 270	Leu	Ile	Lys
Lys	Lys 275	Ala	Asn	Leu	Asn	Ala	Leu 280	Asp	Arg	Tyr	Gly	Arg 285	Thr	Ala	Leu
Ile	Leu 290	Ala	Val	Cys	Cys	Gly	Ser 295	Ala	Ser	Ile	Val	Ser 300	Pro	Leu	Leu
Glu 305	Gln	Asn	Val	Asp	Val 310	Ser	Ser	Gln	Asp 315	Leu	Glu	Arg	Arg	Pro	Glu
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<210> 377

<211> 148

<212> PRT

<213> Homo sapien

$\langle 220 \rangle$

<221> VARIANT

<223> Xaa = Any Amino Acid

[illegible]

<211> 1719

<212> PRT

<213> Homo sapien

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			20					25					30		
Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp
		35					40					45			
His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp
	50					55					60				
Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val
65				70					75					80	
Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn
				85					90					95	
Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser
			100					105					110		
Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe
		115					120				125				
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His
	130					135					140				
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
145					150					155					160
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala
				165					170					175	
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu





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 Pro Ala Ala Ser Ser Val Lys Lys Pro Phe Gly Leu Arg Ser Lys Met  
 1060 1065 1070  
 Gly Lys Trp Cys Cys Arg Cys Phe Pro Cys Cys Arg Glu Ser Gly Lys  
 1075 1080 1085  
 Ser Asn Val Gly Thr Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr  
 1090 1095 1100  
 Leu Arg Ser Lys Met Gly Lys Trp Cys Arg His Cys Phe Pro Cys Cys  
 1105 1110 1115 1120  
 Arg Gly Ser Gly Lys Ser Asn Val Gly Ala Ser Gly Asp His Asp Asp  
 1125 1130 1135  
 Ser Ala Met Lys Thr Leu Arg Asn Lys Met Gly Lys Trp Cys Cys His  
 1140 1145 1150  
 Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Lys Val Gly Ala Trp  
 1155 1160 1165  
 Gly Asp Tyr Asp Asp Ser Ala Phe Met Glu Pro Arg Tyr His Val Arg  
 1170 1175 1180  
 Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val  
 1185 1190 1195 1200  
 Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys  
 1205 1210 1215  
 Lys Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly  
 1220 1225 1230  
 Asn Ser Glu Val Val Lys Leu Leu Leu Asp Arg Arg Cys Gln Leu Asn  
 1235 1240 1245  
 Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Ile Lys Ala Val Gln Cys  
 1250 1255 1260  
 Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro  
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 Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Ile Tyr  
 1285 1290 1295  
 Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp  
 1300 1305 1310  
 Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Val  
 1315 1320 1325  
 His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala  
 1330 1335 1340  
 Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala  
 1345 1350 1355 1360  
 Val Cys Cys Gly Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln Asn  
 1365 1370 1375  
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 1380 1385 1390  
 Ala Val Ser Ser His His His Val Ile Cys Gln Leu Leu Ser Asp Tyr  
 1395 1400 1405  
 Lys Glu Lys Gln Met Leu Lys Ile Ser Ser Glu Asn Ser Asn Pro Glu  
 1410 1415 1420  
 Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Phe Lys Gly  
 1425 1430 1435 1440  
 Ser Glu Asn Ser Gln Pro Glu Lys Met Ser Gln Glu Pro Glu Ile Asn  
 1445 1450 1455  
 Lys Asp Gly Asp Arg Glu Val Glu Glu Glu Met Lys Lys His Glu Ser  
 1460 1465 1470  
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1475                      1480                      1485  
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 1490                      1495                      1500  
 Asn Gln Gln Phe Pro Asp Asn Glu Ser Glu Glu Tyr His Arg Ile Cys  
 1505                      1510                      1515                      1520  
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 1525                      1530                      1535  
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 1540                      1545                      1550  
 Ser Gln Arg Leu Glu Gly Ser Glu Asn Gly Gln Pro Glu Lys Arg Ser  
 1555                      1560                      1565  
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 1570                      1575                      1580  
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 1585                      1590                      1595                      1600  
 Pro Glu Asn Leu Thr Asn Gly Ala Thr Ala Gly Asn Gly Asp Asp Gly  
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 Asp Thr Glu Asn Glu Glu Tyr His Ser Asp Glu Gln Asn Asp Thr Gln  
 1635                      1640                      1645  
 Lys Gln Phe Cys Glu Glu Gln Asn Thr Gly Ile Leu His Asp Glu Ile  
 1650                      1655                      1660  
 Leu Ile His Glu Glu Lys Gln Ile Glu Val Val Glu Lys Met Asn Ser  
 1665                      1670                      1675                      1680  
 Glu Leu Ser Leu Ser Cys Lys Lys Glu Lys Asp Ile Leu His Glu Asn  
 1685                      1690                      1695  
 Ser Thr Leu Arg Glu Glu Ile Ala Met Leu Arg Leu Glu Leu Asp Thr  
 1700                      1705                      1710  
 Met Lys His Gln Ser Gln Leu  
 1715

&lt;210&gt; 379

&lt;211&gt; 656

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 379

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 20                      25                      30  
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp  
 35                      40                      45  
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp  
 50                      55                      60  
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val  
 65                      70                      75                      80  
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn  
 85                      90                      95  
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser  
 100                      105                      110  
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe  
 115                      120                      125



Arg Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr  
                   565                  570                  575  
 His Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln  
                   580                  585                  590  
 Asn Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln  
                   595                  600                  605  
 Ile Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys  
                   610                  615                  620  
 Lys Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile  
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 Ala Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu  
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<210> 380  
 <211> 671  
 <212> PRT  
 <213> Homo sapien

<400> 380  
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                   20                  25                  30  
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp  
                   35                  40                  45  
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp  
                   50                  55                  60  
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val  
                   65                  70                  75                  80  
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn  
                   85                  90                  95  
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser  
                   100                  105                  110  
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe  
                   115                  120                  125  
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His  
                   130                  135                  140  
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met  
                   145                  150                  155                  160  
 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala  
                   165                  170                  175  
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu  
                   180                  185                  190  
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr  
                   195                  200                  205  
 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met  
                   210                  215                  220  
 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn  
                   225                  230                  235                  240  
 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys  
                   245                  250                  255  
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly  
                   260                  265                  270  
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val

00657279.000000



&lt;400&gt; 381

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ccaatatccc	aggagaagca	ttggggagtt	gggggcaggt	gaaggaccca	ggactcacac	180
atcctggggc	tccaaggcag	aggagagggg	cctcaagaag	gtcaggagga	aaatccgtaa	240
caagcagtca	g					251

&lt;210&gt; 382

&lt;211&gt; 3279

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 382

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<210> 383
<211> 154
<212> PRT
<213> Homo sapiens

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<400> 383
Met Ala Gly Val Arg Asp Gln Gly Gln Gly Ala Arg Trp Pro His Thr
      5                                10                                15

Gly Lys Arg Gly Pro Leu Leu Gln Gly Leu Thr Trp Ala Thr Gly Gly
      20                                25                                30

His Cys Phe Ser Ser Glu Glu Ser Gly Ala Val Asp Gly Ala Gly Gln
      35                                40                                45

Lys Lys Asp Arg Ala Trp Leu Arg Cys Pro Glu Ala Val Ala Gly Phe
      50                                55                                60

Pro Leu Gly Ser Asp Cys Arg Glu Gly Gly Arg Gln Gly Cys Gly Gly
      65                                70                                75                                80

Ser Asp Asp Glu Asp Asp Leu Gly Val Ala Pro Gly Leu Ala Pro Ala
      85                                90                                95

Trp Ala Leu Thr Gln Pro Pro Ser Gln Ser Pro Gly Pro Gln Ser Leu
      100                                105                                110

Pro Ser Thr Pro Ser Ser Ile Trp Pro Gln Trp Val Ile Leu Ile Thr
      115                                120                                125

Glu Leu Thr Ile Pro Ser Pro Ala His Gly Pro Pro Trp Leu Pro Asn
      130                                135                                140

Ala Leu Glu Arg Gly His Leu Val Arg Glu
      145                                150

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<210> 384

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tgaaccagga	cgggttctctg	ggcggtgaa	aggggcaagg	aggcaaggac	cccgctctctc	180	
ccacggatgg	ggagagggca	ggaggagacc	cagccaagtg	ccttttcctc	agcactgagg	240	
gagggggcct	gtttcccttc	cctcccggg	acaagctcca	ggcaggggct	gtccctctgg	300	
cgggcccagc	acttcctcag	acacaacttc	ttcctgctgc	tccagtcgtg	gggatcatca	360	
cttaccacc	ccccaaqtcc	aagaccaaatt	cttcagctg	cccccttcgt	gtttccctgt	420	

gtttgctgta gctgggcatg tctccaggaa ccaagaagcc ctcagcctgg tgtagtctcc 480  
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<210> 388  
<211> 520  
<212> DNA  
<213> Homo sapiens

<400> 388  
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tgaggTTaaa ccagTTTgca tTcccctaata gtggaaaaaag taagaggact actcagcact 120  
gtttgaagat Tgcctcttct acagcttctg agaattgtgt tatttcactt gccaagtga 180  
ggacccccctc cccaacatgc cccagcccac ccctaagcat ggtcccttgt caccaggcaa 240  
ccaggaaact gctacttTgt gacctcacca gagaccagga gggTTTggtt agctcacagg 300  
actTccccca cccagaaga ttagcatccc atactagact catactcaac tcaactaggc 360  
tcatactcaa ttgatggTTa ttagacaatt ccatttcttt ctggTTatta taaacagaaa 420  
atctTtctctc ttctcattac cagtaaaggc tcttggtatc tttctgtTgg aatgatttct 480  
atgaactTgt cttattTTaa tggTgggTtt ttttctggt 520

<210> 389  
<211> 365  
<212> DNA  
<213> Homo sapiens

<400> 389  
cgTTgccccca gTTtgacaga aggaaaggcg gagcttattc aaagtctaga gggagtggag 60  
gagTTaaggc TggattTcag atctgcctgg tTccagccgc agtTgTccct ctgTcccccc 120  
aacgactTtTc caaataatct caccagcgcc tTccagctca ggcgTcctag aagcgTctTg 180  
aagcctatgg ccagctgtct ttgtgtTccc tctcaccgc ctgTcctcac agctgagact 240  
cccaggaaac cTtcagacta cctTcctctg cctTcagcaa ggggcgTtg cccacattctc 300  
tgagggtcag Tggaagaacc tagactccca ttgctagagg tagaaagggg aagggtgctg 360  
gggag 365

<210> 390  
<211> 221  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(221)  
<223> n = A,T,C or G

<400> 390  
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gctctangag tctgannga ntcgtTgcc cantntgaca naaggaaagg cggagcttat 180  
tcaaagtcta gagggagtgg aggagtTaa gctggatttc a 221

<210> 391  
<211> 325  
<212> DNA  
<213> Homo sapiens

009050"6225950

<220>  
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 <222> (1)...(325)  
 <223> n = A,T,C or G

<400> 391  
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 tagccagggc actgctgcca acagccagtc cnnataccat catgtnaccc ggtgngctct 180  
 naanttn gat ntccanagcc ctacccatcn tagttctgct ctcccaccgg ntaccagccc 240  
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 gagacctccg gctactacta tgacc 325

<210> 392  
 <211> 277  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (1)...(277)  
 <223> n = A,T,C or G

<400> 392  
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 antaccanga accgncatgn cttaanaacn ncctggtttn tgggttnntc aatgactgca 180  
 tgcagtgcac caccctgtcc actacgtgat gctgtaggat taaagtctca cagtgggcgg 240  
 ctgaggatag agcgccgcgt cctgtgttgc tggggaa 277

<210> 393  
 <211> 566  
 <212> DNA  
 <213> Homo sapiens

<400> 393  
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 ttgccgggaa cactgcagag acaatgctgt gagtttccaa ccttagccca tctgcgggca 180  
 gagaaggctc agtttgtcca tcagcattat catgatatca ggactgggta cttgggttaag 240  
 gaggggtcta ggagatctgt ccctttttaga gacaccttac ttataatgaa gtatttgga 300  
 ggggtggttt caaaagtaga aatgtcctgt attccgatga tcatcctgta aacattttat 360  
 catttattaa tcatccctgc ctgtgtctat tattatattc atatctctac gctggaaact 420  
 ttctgcctca atgtttactg tgcctttgtt tttgctagtt tgtgttggtg aaaaaaaaaa 480  
 cattctctgc ctgagtttta atttttgtcc aaagttattt taatctatac aattaaaagc 540  
 ttttgcttat caaaaaaaaaa aaaaaa 566

<210> 394  
 <211> 384  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<222> (1)...(384)

<223> n = A,T,C or G

<400> 394

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gcaggaggac cgggctttta ggagttttta gctgagtgtc actgtagacc ccaaatacca 180
tcccaagatt atcgggagaa agggggcagt aattacccaa atccggttgg agcatgacgt 240
gaacatccag tttcctgata aggacgatgg gaaccagccc caggaccaa ttaccatcac 300
agggtagcaa aagaacacag aagctgccag ggatgctata ctgagaattg tgggtgaact 360
tgagcagatg gtttctgagg acgt 384
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<210> 395

<211> 399

<212> DNA

<213> Homo sapiens

<400> 395

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ggcaaaactg tgtgacctca ataagacctc gcagatccaa ggtcaagtat cagaagtgac 60
tctgaccttg gactccaaga cctacatcaa cagcctggct atattagatg atgagccagt 120
tatcagaggt ttcattcatt cggaaattgt ggagtctaag gaaatcatgg cctctgaagt 180
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ccagctactt gtctgcaatt gtatcttcaa gaataccctg gccatccctt tgactgacgt 300
caagttctct ttggaaagcc tgggcatctc ctactacag acctctgacc atgggacggt 360
gcagcctggg gagaccatcc aatcccaaat aaaatgcac 399
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<210> 396

<211> 403

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(403)

<223> n = A,T,C or G

<400> 396

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agacaaggac aacctgttcc ttcataactc tctagagaaa aaaaggagtt gttagtagat 180
actaaaaaaaa gtggatgaat aatctggata tttttcctaa aaagattcct tgaaacacat 240
taggaaaaatg gagggcctta tgatcagaat gctagaatta gtccattgtg ctgaagcagg 300
gttttagggga gggagtggag gataaaagaa ggaaaaaaag aagagtgaga aaacctattt 360
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<210> 397

<211> 100

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(100)

<223> n = A,T,C or G



agcaggtt

548

<210> 401  
 <211> 355  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(355)  
 <223> n = A,T,C or G

<400> 401  
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 taagagtggg ggcctatttc agctgctttg acaaaatgac tggctcctga cttaacgttc 180  
 tataaatgaa tgtgctgaag caaagtgcc atgggtggcg cgaagaagan aaagatgtgt 240  
 tttgttttgg actctctgtg gtcccttcca atgctgnggg tttccaacca ggggaagggt 300  
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 <211> 407  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(407)  
 <223> n = A,T,C or G

<400> 402  
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 aatggaaaaa cagaaaaaag caggtgttgc actcctactt tctgacaaaa cagactatgc 180  
 gaataaagat aaaaaagaga aggacattac aaagggtggc ctgacctttg ataaatctca 240  
 ttgcttgata ccaacctggg ctgttttaat tgcccaaacc aaaaggataa tttgctgagg 300  
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<210> 403  
 <211> 303  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
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 <223> n = A,T,C or G

<400> 403  
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 tagagaacaa gacctactca gtcatgaaca aaaaggcaga caccaacatg gatctcatgg 180  
 gggattggat attgtaatta tagagcagga agatgacagt gatcgtcatt tggcacaaca 240

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tottaacaac gaccgaaacc cattatttac ataaacctcc attcggtaac catgttgaaa 300  
gga 303

<210> 404  
<211> 225  
<212> DNA  
<213> Homo sapiens

<400> 404  
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acattttcca ctcggtgttc catagttggt aagtgtatca gatgtgttg gcatgtgaat 180  
ctccaagtgc ctgtgtaata aataaagtat ctttatttca ttcatt 225

<210> 405  
<211> 334  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1) ... (334)  
<223> n = A,T,C or G

<400> 405  
gagctgttat actgtgagtt ctactaggaa atcatcaaatt ctgaggggtg tctggaggac 60  
ttcaatacac ctccccccat agtgaatcag cttccagggg gtccagtccc tctccttact 120  
tcatccccat cccatgccaa aggaagaccc tccctccttg gctcacagcc ttctctaggc 180  
ttcccagtgc ctccaggaca gagtgggtta tgttttcagc tccatccttg ctgtgagtg 240  
ctggtgcggt tgtgcctcca gcttctgctc agtgcctcat ggacagtgtc cagcccatgt 300  
cactctccac tctctcannng tggatcccaac ccct 334

<210> 406  
<211> 216  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1) ... (216)  
<223> n = A,T,C or G

<400> 406  
tttcatacct aatgagggag ttganatnac atnnaaccag gaaatgcatg gatctcaang 60  
gaaacaaaca cccaataaac tcggagtggc agactgacaa ctgtgagaca tgcacttgct 120  
acnaaacaca aatttntatgt tgcacccttg tttctacacc tgtgggttat gacaaagaca 180  
actgccaaag aatnttcaag aaggaggact gccant 216

<210> 407  
<211> 413  
<212> DNA  
<213> Homo sapiens

<400> 407

```

getgacttgc tagtatcatc tgcattcatt gaagcacaag aacttcatgc cttgactcat 60
gtaaatgcaa taggattaaa aaataaattt gatatcacat ggaaacagac aaaaaatatt 120
gtacaacatt gcacccagtg tcagattcta cacctggcca ctcaggaagc aagagttaat 180
cccagaggtc tatgtcctaa tgtgttatgg caaatggatg tcatgcacgt accttcattt 240
ggaaaattgt catttgtcca tgtgacagtt gatacttatt cacatttcat atgggcaacc 300
tgccagacag gagaaagtct tcccatgtta aaagacattt attatcttgt tttcctgtca 360
tgggagttcc agaaaaagtt aaaacagaca atggggccagg ttctgtagta aag          413

```

```

<210> 408
<211> 183
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(183)
<223> n = A,T,C or G

```

```

<400> 408
ggagctngcc ctcaattcct ccatntctat gttancatat ttaatgtctt ttgnnattaa 60
tncttaacta gttaatcctt aaagggctan ntaatcctta actagtcctt ccattgtgag 120
cattatcctt ccagtattcn ccttctnttt tatttactcc ttcctggcta cccatgtact 180
ntt                                     183

```

```

<210> 409
<211> 250
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(250)
<223> n = A,T,C or G

```

```

<400> 409
cccacgcatg ataagctctt tatttctgta agtcctgcta ggaaatcatc aaatctgacg 60
gtggtttggg ggacctgaac aaacctcctg taattaatca gctttcagtt tctcccccta 120
gtccctcctt caacaacata ggaggatcct ccccttcttt ctgctcacgg ccttatctag 180
gcttcccagt gccccagga cagcgtgggc tatgtttaca gcgcntcctt gctggggggg 240
ggcntatgc                                     250

```

```

<210> 410
<211> 306
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(306)
<223> n = A,T,C or G

```

```

<400> 410
ggctggtttg caagaatgaa atgaatgatt ctacagctag gacttaacct tgaaatggaa 60
agtcttgcaa tcccatttgc aggatccgtc tgtgcacatg cctctgtaga gagcagcatt 120

```

```

cccagggacc ttggaacag ttggcactgt aaggtgcttg ctccccaaga cacatcctaa 180
aaggtgttgt aatggtgaaa accgcttcct tctttattgc cccttcttat ttatgtgaac 240
nactggttgg ctttttttgn atctttttta aactggaaag ttcaattgng aaaatgaata 300
tcntgc                                           306

```

```

<210> 411
<211> 261
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(261)
<223> n = A,T,C or G

```

```

<400> 411
agagatattn cttaggtnaa agttcataga gttcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
tttaaattgc tgaaatggaa cagatttcaa aaaaaaaccc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttaccat cagttccagc 240
cttctctcaa ggngaggcaa a                                           261

```

```

<210> 412
<211> 241
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(241)
<223> n = A,T,C or G

```

```

<400> 412
gttcaatgtt acctgacatt tctacaacac cccactcacc gatgtattcg ttgccagtg 60
ggaacatacc agcctgaatt tggaaaaaat aattgtgttt cttgccagg aaatactacg 120
actgactttg atggctccac aaacataacc cagtgtaaaa acagaagatg tggaggggag 180
ctgggagatt tcaactgggtta cattgaattc ccaaactacc cangcaatta cccagccaac 240
a                                           241

```

```

<210> 413
<211> 231
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(231)
<223> n = A,T,C or G

```

```

<400> 413
aactcttaca atccaagtga ctcatctgtg tgcttgaatc ctttccactg tctcatctcc 60
ctcatccaag tttctagtag cttctctttg ttgtgaagga taatcaaact gaacaacaaa 120
aagtttactc tcctcatttg gaacctaaaa actctcttct tcctgggtct gagggctcca 180
agaatecttg aatcanttct cagatcattg gggacaccan atcaggaacc t                                           231

```

005050 "622590"

```
<220>
<221> misc_feature
<222> (1)...(303)
<223> n = A,T,C or G
```

<400> 417  
nagtcttcag gcccatcagg gaagttcaca ctggagagaa gtcatacata tgtactgtat 60  
gtgggaaagg ctttactctg agttcaaadc ttcaagccca tcagagagtc cacactggag 120  
agaagccata caaatgcaat gagtgtggga agagcttcag gagggattcc cattatcaag 180  
ttcatctagt ggtccacaca ggagagaaac cctataaatg tgagatatgt gggaagggct 240  
tcantcaaag ttctgtatctt caaatccatc ngaaggncca cagtatanan aaacctttta 300  
agt 303

<210> 418  
<211> 328  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1) ... (328)  
<223> n = A,T,C or G

<400> 418  
tttttgccgg tgggtggggca gggacggggac angagtctca ctctgttgcc caggctggag 60  
tgcacaggca tgatctcggc tcaactacaac ccctgcctcc catgtccaag cgattcttgt 120  
gcctcagcct tcctctgtagc tagaattaca ggcacatgcc accacaccca gctagttttt 180  
gtatttttag tagagacagg gtttcacatc gttggccagg ctggtctcaa actcctnacc 240  
tcagnggtca ggctgggtctc aaactcctga cctcaagtga tctgcccacc tcagcctccc 300  
aaagtgctan gattacaggc cgtgagcc 328

<210> 419  
<211> 389  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1) ... (389)  
<223> n = A,T,C or G

<400> 419  
ctcctcaag acggcctgtg gtccgcctcc cggcaaccaa gaagcctgca gtgccatagt 60  
acccttgagc catggactgg agcctgaaag gcagcgtaca ccctgctcct gatcttgctg 120  
cttgtttctt ctctgtggct ccattcatag cacagtgtgt gcaactgaggc ttgtgcaggc 180  
cgagcaaggc caagctggct caaagagcaa ccagtcaact ctgccacggc gtgccaggca 240  
ccgttcttcc agccaccaac ctcaactcgt cccgcaaagt gcacatcagt tcttctaccc 300  
taaaggtagg accaaagggc atctgctttt ctgaagtctt ctgctctatc agccatcacg 360  
tggcagccac tcnggctgtg tcgacgcgg 389

<210> 420  
<211> 408  
<212> DNA  
<213> Homo sapiens

<400> 420  
gttctctcta actcctgcca gaaacagctc tctcaacat gagagctgca cccctcctcc 60  
tggccagggc agcaagcctt agccttggtt tcttgtttct gctttttttc tggctagacc 120  
gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180

```

gtccattga cacctttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240
gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcttgaat gagtccata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg aagtgcata acaaacctgg caagccccg 408

```

```

<210> 421
<211> 352
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(352)
<223> n = A,T,C or G

```

```

<400> 421
gctcaaaaat ctttttactg atnggcatgg ctacacaatc attgactatt acggaggcca 60
gaggagaatg aggcctggcc tgggagccct gtgcctacta naagcacatt agattatcca 120
ttcactgaca gaacagggtct tttttgggtc cttcttctcc accacnatac acttgacagtc 180
ctccttcttg aagattcttt ggcagttgtc tttgtcataa cccacagggtg tagaaacaag 240
ggtgcaacat gaaatttctg tttcgtagca agtgcattgc tcacaagttg gcangtctgc 300
cactccgagt ttattgggtg tttgtttcct ttgagatcca tgcatttcct gg 352

```

```

<210> 422
<211> 337
<212> DNA
<213> Homo sapiens

```

```

<400> 422
atgccaccat gctggcaatg cagcggggcgg tcgaaggcct gcatatccag cccaagctgg 60
cgatgatcga cggcaaccgt tgcccgaagt tgccgatgcc agccgaagcg gtggtcaagg 120
gcatagacaa ggtgccggcg atcgcgcgcg cgtcaatcct ggccaaggtc agccgtgatc 180
gtgaaatggc agctgtcgaa ttgatctacc cgggttatgg catcggcggg cataagggct 240
atccgacacc ggtgcacctg gaagccttgc agcggtctggg gccgacgccg attcacccgac 300
gcttcttcgg ccggtacggc tggcctatga aaattat 337

```

```

<210> 423
<211> 310
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(310)
<223> n = A,T,C or G

```

```

<400> 423
gctcaaaaat ctttttactg atatggcatg gctacacaat cattgactat tagaggccag 60
aggagaatga ggctggcctt gggagccctg tgcctactan aagcncatta gattatccat 120
tcactgacag aacagggtctt ttttgggtcc ttcttctcca ccacgatata cttgcagtcc 180
tccttcttga agattctttg gcagttgtct ttgtcataac ccacagggtgt anaaacaagg 240
gtgcaacatg aaatttctgt ttcgtagcaa gtgcatgtct cacagttgtc aagtctgccc 300
tccgagttta 310

```

<210> 424  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(370)  
 <223> n = A,T,C or G

<400> 424  
 gctcaaaaat ctttttactg ataggcatgg ctacacaatc attgactatt agaggccaga 60  
 ggagaatgag gcctggcctg ggagccctgt gcctactaga agcacattag attatccatt 120  
 cactgacaga acagggtcttt ttgggtcct tcttctccac cacgatatac ttgcagtcct 180  
 ccttcttgaa gattcttttg cagttgtctt tgcataaacc cacaggtgta gaaacatcct 240  
 ggttgaatct cctggaactc cctcattagg tatgaaatag catgatgcat tgcataaagt 300  
 cacgaaggtg gcaaagatca caacgctgcc cagganaaca ttcattgtga taagcaggac 360  
 tccgtcgacg 370

<210> 425  
 <211> 216  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(216)  
 <223> n = A,T,C or G

<400> 425  
 aattgctatn ntttttttg ccactcaaaa taattaccaa aaaaaaaaaa tnttaaata 60  
 taacaacnca acatcaaggn aananaaca ggaatggntg actntgcata aatnggccga 120  
 anattatcca ttatnttaag ggttgacttc aggntacagc acacagacaa acatgcccag 180  
 gaggnntntca ggaccgctcg atgtntntng aggagg 216

<210> 426  
 <211> 596  
 <212> DNA  
 <213> Homo sapiens

<400> 426  
 cttccagtga ggataaccct gttgccccgg gccgaggttc tccattaggc tctgattgat 60  
 tggcagtcag tgatggaagg gtgttctgat cattccgact gccccaaggg tcgctggcca 120  
 gctctctgtt ttgctgagtt ggcagtagga cctaatttgt taattaagag tagatggtga 180  
 gctgtccttg tattttgatt aacctaatgg ctttcccagc acgactcgga ttcagctgga 240  
 gacatcacgg caacttttaa tgaaatgatt tgaagggcc a ttaagaggca cttcccgta 300  
 ttaggcagtt catctgcaat gataacttct tggcagctga gctggtcgga gctgtggccc 360  
 aaacgcacac ttggcttttg gttttgagat acaactctta atcttttagt catgcttgag 420  
 ggtggatggc cttttcagct ttaacccaat ttgcactgcc ttggaagtgt agccaggaga 480  
 atacactcat atactcgtgg gcttagaggc cacagcagat gtcattggtc tactgcctga 540  
 gtcccgctgg toccatccca ggaccttcca tcggcgagta cctgggagcc cgtgct 596

<210> 427  
 <211> 107



```

gaacactgac acccatcttc caccctcgaca ctctgattta attgggctgc agtgagaaca 120
gagcatcaat ttaaaaagct gccagaaatg ttntcctggg cagcgttggtg atctttgcon 180
ccttcgtgac tttatgcaat gcatcatgct atttcatacc taatgaggga gttccaggag 240
attcaaccag gatgttttcta cncctgtggg ttatgacaaa gacaactgcc aaagaatntt 300
caagaaggag gactgcaagt atatcgtggt ggagaagaag gacccaaaaa agacctgttc 360
tgtcagtga tggataatct aatgtgcttc tagtaggcac agggctccca ggccaggcct 420
cattctcttc tggcctctaa tagtcaatga ttgtgtagcc atgcctatca gtaaaaagat 480
ttttgagcaa aaaaaaaaaa aaaaaaa 507

```

```

<210> 431
<211> 392
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1) ... (392)
<223> n = A,T,C or G

```

```

<400> 431
gaaaattcag aatggataaa aacaaatgaa gtacaaaata tttcagattt acatagcgat 60
aaacaagaaa gcaattatca ggaggactta caaatggaag tacactctan aaccatcatc 120
tatcatggct aaatgtgaga ttagcacagc tgtattattt gtacattgca aacacctaga 180
aagagatggg aaacaaaatc ccaggagttt tgtgtgtgga gtcctgggtt ttccaacaga 240
catcattcca gcattctgag attagggnga ttggggatca ttctggagtt ggaatgttca 300
acaaaagtga tgttgtagg taaaatgtac aacttctgga tctatgcaga cattgaaggt 360
gcaatgagtc tggcttttac tctgctgttt ct 392

```

```

<210> 432
<211> 387
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1) ... (387)
<223> n = A,T,C or G

```

```

<400> 432
ggtatccnta cataatcaaa tatagctgta gtacatgttt tcattggngt agattaccac 60
aaatgcaagg caacatgtgt agatctcttg tcttattctt ttgtctataa tactgtattg 120
ngtagtccaa gctctcgga gtccagccac tngaaacat gctcccttta gattaacctc 180
gtggacnctn ttgttgnatt gtctgaactg tagngccctg tattttgctt ctgtctgnga 240
attctgttgc ttctggggca tttccttgng atgcagagga ccaccacaca gatgacagca 300
atctgaattg ntccaatcac agctgcgatt aagacatact gaaatcgtac aggaccggga 360
acaacgtata gaacactgga gtcctttt 387

```

```

<210> 433
<211> 281
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<223> n = A, T, C or G

ttcaactagc	anagaanact	gcttcagggg	gtgtaaaaatg	aaaggcttcc	acgcagttat	60
ctgattaaag	aacactaaga	gagggacaag	gctagaagcc	gcaggatgct	tacactatag	120
caggcnctat	ttgggttggc	tggaggagct	gtggaaaaca	tggagagatt	ggcgctggag	180
atcgccgtgg	ctattctctn	ttgntattac	accagnagca	ntctctgtnt	gcccaatggg	240
tnnaaaaccg	ntatacaata	atqataqaat	aggcacaca	t		281

<211> 484

<213> Homo sapiens

ttttaaaata	agcatttagt	gtcagtcctc	tactgagtac	tctttctctc	ccctcctctg	60
aatttaattc	tttcaacttg	caatttgcaa	ggattacaca	tttcaactgtg	atgtatatattg	120
tgttgcaaaa	aaaaaaaaagt	gtctttgttt	aaaattactt	ggtttgtgaa	tccatcttgc	180
tttttcccca	ttggaactag	tcattaaccc	atctctgaac	tggtagaaaa	acatctgaag	240
agctagctta	tcagcatctg	acaggtgaat	tggatgggtc	tcagaaccat	ttcaccaga	300
cagcctgttt	ctatcctgtt	taataaatta	gtttgggttc	tctacatgca	taacaaaccc	360
tgctccaatc	tgtcacataa	aagtctgtga	cttgaagttt	agtcagcacc	cccaccaaac	420
tttatttttc	tatgtgtttt	ttgcaacata	tgagtgtttt	gaaaataaag	taccatgtc	480
ttta						484

<211> 424

<213> Homo sapiens

ggcgcgctca	gagcagggtca	ctttctgcct	tccacgtcct	ccttcaagga	agccccatgt	60
gggtagcttt	caatatcgca	ggttcttact	cctctgcctc	tataagctca	aaccaccaa	120
cgatcgggca	agtaaacccc	ctccctcgcc	gacttcggaa	ctggcgagag	ttcagcgcag	180
atgggcctgt	ggggaggggg	caagatagat	gagggggagc	ggcatggtgc	ggggtgacc	240
cttgagaga	ggaaaaaggc	cacaagagg	gctgccaccg	ccactaacgg	agatggccct	300
ggtagagacc	tttgggggtc	tggaaacctc	ggactcccca	tgctctaact	cccacactct	360
gctatcagaa	acttaaaact	gaggattttc	tctgtttttc	actcgcaata	aattcagagc	420
aaac						424

<211> 667

<213> Homo sapiens

<221> misc feature

<223> n = A, T, C or G

accttgggaa nactctcaca atataaaggg tcgtagactt tactccaaat tccaaaaagg 60  
tcctggccat gtaatcctga aagttttccc aaggtagcta taaaatcctt ataagggtgc 120

```

agcctcttct ggaattcctc tgatttcaaa gtctcactct caagttcttg aaaacgaggg 180
cagttcctga aaggcaggta tagcaactga tcttcagaaa gaggaactgt gtgcaccggg 240
atgggctgcc agagtaggat aggattccag atgctgacac cttctggggg aaacagggct 300
gccaggtttg tcatagcact catcaaagtc cggccaacgt ctgtgcttcg aatataaacc 360
tgttcatgtt tataggactc attcaagaat tttctatatc tctttcttat atactctcca 420
agttcataat gctgctccat gccagctgg gtgagttggc caaatccttg tggccatgag 480
gattccttta tggggtcagt gggaaagggt tcaatgggac ttcggtctcc atgccgaaac 540
accaaagtca caaacttcaa ctccttggct agtacacttc ggtctagcca gaaaaaagc 600
agaaacaaga agccaaggct aaggcttgct gccctgccag gaggaggggt gcagctctca 660
tgttgag                                         667

```

```

<210> 437
<211> 693
<212> DNA
<213> Homo sapiens

```

```

<400> 437
ctacgtctca accctcattt ttaggtaagg aatcttaagt ccaaagatat taagtgactc 60
acacagccag gtaaggaaag ctggattggc acactaggac tctaccatac cgggttttgt 120
taaagctcag gttaggaggc tgataagctt ggaaggaaact tcagacagct ttttcagatc 180
ataaaagata attcttagcc catgttcttc tccagagcag acctgaaatg acagcacagc 240
aggtaactct ctattttcac cctcttgct tctactctct ggcagtcaga cctgtgggag 300
gccatgggag aaagcagctc tctggatgtt tgtacagatc atggactatt ctctgtggac 360
catttctcca ggttacccta ggtgtcacta ttggggggac agccagcatc ttttagctttc 420
atgtgagttt ctgtctgtct tcagtagagg aaacttttgc tcttcacact tcacatctga 480
acacctaaact gctgttgctc ctgaggtggg gaaagacaga tatagagctt acagtattta 540
tcctatttct aggcaactgag ggctgtgggg taccttgtgg tgccaaaaca gatcctgttt 600
taaggacatg ttgcttcaga gatgtctgta actatctggg ggctctgttg gctctttacc 660
ctgcatcatg tgetctcttg gctgaaaatg acc                                         693

```

```

<210> 438
<211> 360
<212> DNA
<213> Homo sapiens

```

```

<400> 438
ctgcttatca caatgaatgt tctcctgggc agcgttgtga tctttgccac cttcgtgact 60
ttatgcaatg catcatgcta tttcatacct aatgagggag ttccaggaga ttcaaccagg 120
atgtttctac acctgtgggt tatgacaaag acaactgcc aagaatcttc aagaaggagg 180
actgcaagta tatctggtgg agaagaagga ccaaaaaag acctgttctg tcagtgaatg 240
gataatctaa tgtgcttcta gtaggcacag ggctcccagg ccaggcctca ttctcctctg 300
gcctctaata gtcaataatt gtgtagccat gcctatcagt aaaaagattt ttgagcaaac 360

```

```

<210> 439
<211> 431
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(431)
<223> n = A,T,C or G

```

```

<400> 439

```

gttcctnnta actcctgcc a gaaacagctc tcctcaacat gagagctgca cccctcctcc 60  
 tggccagggc agcaagcctt agccttggct tcttgtttct gctttttttc tggctagacc 120  
 gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180  
 gtccattga cacctttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240  
 gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300  
 gatatagaaa attccttgaat gagtcctata aacatgaaca ggtttatatt cgaagcacag 360  
 acgttgaccg gactttgatg agtgctatga caaacctggc agcccgtcga cgcggccgcg 420  
 aatttagtag t 431

<210> 440  
 <211> 523  
 <212> DNA  
 <213> Homo sapiens

<400> 440  
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 ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120  
 tttaaatgtc tgaaatggaa cagatttcaa aaaaaaaccc cacaatctag ggtgggaaca 180  
 aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttacccat cagttccagc 240  
 cttctctcaa ggagaggcaa agaaaggaga tacagtggag acatctggaa agttttctcc 300  
 actggaaaac tgctactatc tgtttttata tttctgttaa aatatatgag gctacagaac 360  
 taaaaattaa aacctctttg tgtcccttgg tcctggaaca tttatgttcc ttttaaagaa 420  
 acaaaaatca aactttacag aaagatttga tgtatgtaac acatatagca gctcttgaag 480  
 tatatatatc atagcaaata agtcacttga tgagaacaag cta 523

<210> 441  
 <211> 430  
 <212> DNA  
 <213> Homo sapiens

<400> 441  
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 tggccagggc agcaagcctt agccttggct tcttgtttct gctttttttc tggctagacc 120  
 gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180  
 gtccattga cacctttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240  
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 gatatagaaa attccttgaat gagtcctata aacatgaaca ggtttatatt cgaagcacag 360  
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 aatttagtag 430

<210> 442  
 <211> 362  
 <212> DNA  
 <213> Homo sapiens

<400> 442  
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 tttcctggaa tgacaattat attttaactt tgggtggggga aagagttata ggaccacagt 120  
 cttcacttct gatacttgta aattaactt ttattgcact tgttttgacc attagctat 180  
 atgtttagaa atgggtcattt tacggaaaaa ttagaaaaat tctgataata gtgcagaata 240  
 aatgaattaa tgttttactt aatttatatt gaactgtcaa tgacaaataa aaattctttt 300  
 tgattatttt ttgttttcat ttaccagaat aaaaactaag aattaaaagt ttgattacag 360  
 tc 362

<210> 443  
 <211> 624  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(624)  
 <223> n = A,T,C or G

<400> 443  
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 ttgaaagaat taaattcaga ggaggggaga gaaagagtac tcagtaggga ctgagcacta 120  
 aatgcttatt ttaaaagaaa tgtaaagagc agaaagcaat tcaggctacc ctgccttttg 180  
 tgctggctag tactccgggc ggtgtcagca gcacgtggca ttgaacattg caatgtggag 240  
 cccaaaccac agaaaatggg gtgaaattgg ccaactttct attaaacttg cttcctgttt 300  
 tataaaatat tgtgaataat atcacctact tcaaagggca gttatgaggc ttaaataaac 360  
 taacgcctac aaaacactta aacatagata acataggtgc aagtactatg tatctggtac 420  
 atggtaaaca tccttattat taaagtcaac gctaaaatga atgtgtgtgc atatgctaata 480  
 agtacagaga gagggcactt aaaccaacta agggcctgga gggaagggtt cctggaaaaga 540  
 ngatgcttgt gctgggtcca aatcttggtc tactatgacc ttggccaaat tattttaaact 600  
 ttgtccctat ctgctaaaca gatc 624

<210> 444  
 <211> 425  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(425)  
 <223> n = A,T,C or G

<400> 444  
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 gaagctttgt ccaggcctgt gtgtgaaccc aatgttttgc ttagaaatag aacaagtaag 120  
 ttcattgcta tagcataaca caaaatttgc ataagtgtg gtcagcaaat ccttgaatgc 180  
 tgcttaatgt gagaggttgg taaaatcctt tgtgcaacac tctaactccc tgaatgtttt 240  
 gctgtgctgg gacctgtgca tgccagacaa ggccaagctg gctgaaagag caaccagcca 300  
 cctctgcaat ctgccacctc ctgctggcag gatttgtttt tgcacacctg gaagagccaa 360  
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 gtaga 425

<210> 445  
 <211> 414  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(414)  
 <223> n = A,T,C or G

<400> 445

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<210> 446
<211> 631
<212> DNA
<213> Homo sapiens
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atgctgggta	tactggacaa	cactgtgaaa	aaaaggacta	cagtgttcta	tacgttggtc	180	
ccggtcctgt	acgatttcag	tatgtcttaa	tcgcagctgt	gatttgaaca	attcagattg	240	
ctgtcatctg	tgtggtggtc	ctctgcatca	caagggccaa	actttaggta	atagcattgg	300	
actgagattt	gtaaaacttc	caaccttcca	ggaaatgcc	cagaagcaac	agaattcaca	360	
gacagaagca	aaatacaggg	cactacagtt	cagacaatac	aacaagagcg	tccacgaggt	420	
taatctaaag	ggagcatgtt	tcacagtggc	tggtactaccg	agagcttgga	ctacacaata	480	
cagttattata	gacaaaagaa	taagacaaga	ggtctacaca	tgttgccttg	catttggtgtg	540	
aatctacacc	aatgaaaaca	tgtactacag	ctatatattga	ttatgtatgg	atatatttga	600	
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<220>
<221> misc_feature
<222> (1)...(585)
<223> n = A,T,C or G
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<210> 448

<211> 93  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(93)  
 <223> n = A,T,C or G

<400> 448  
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 ggctccctag tgccctggag agganggggc tag 93

<210> 449  
 <211> 706  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(706)  
 <223> n = A,T,C or G

<400> 449  
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 ttctgancac cgaactgacc atgccagccc tgccgatggc cctccatggc tccctagtgc 120  
 cctggagagg aggtgtctag tcagagagta gtccctggaag gtggcctctg ngaggagcca 180  
 cggggacagc atcctgcaga tggtcgggcg cgtcccatc gccattcagg ctgcccgaact 240  
 gttgggaagg gcgatcgggtg cgggcctctt cgctattacg ccagctggcg aaagggggat 300  
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 cgacggccag tgaattgaat ttaggtgacn ctatagaaga gctatgacgt cgcagtcacg 420  
 cgtacgtaag cttggatcct ctagagcggc cgcctactac tactaaattc gcggccgcgt 480  
 cgacgtggga tccnactga gagagtggag agtgacatgt gctggacnct gtccatgaag 540  
 cactgagcag aagctggagg cacaacgcnc cagacactca cagctactca ggaggctgag 600  
 aacaggttga acctgggagg tggaggttgc aatgagctga gatcaggccn ctgcncccca 660  
 gcatggatga cagagtgaaa ctccatctta aaaaaaaaa aaaaaa 706

<210> 450  
 <211> 493  
 <212> DNA  
 <213> Homo sapiens

<400> 450  
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 aaatgaggct gagaacttta caaagggatc ttacagacat gtcgccaata tcaactgcatg 180  
 agcctaagta taagaacaac ctttggggag aaacctatcat ttgacagtga ggtacaattc 240  
 caagtcaggc agtgaaatgg gtggaattaa actcaaatta atcctgccag ctgaaacgca 300  
 agagacactg tcagagagtt aaaaagttag ttctatccat gaggtgattc cacagtcttc 360  
 tcaagtcaac acatctgtga actcacagac caagttctta aaccactgtt caaactctgc 420  
 tacacatcag aatcacctgg agagctttac aaactcccat tgccgagggt cgacgcggcc 480  
 gcgaatttag tag 493

<210> 451

<211> 501  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

<400> 451  
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 ctcttcgcta ttacgccagc tggcgaaagg gggatgtgct gcaaggcgat taagttgggt 120  
 aacgccaggg ttttcccagt cncgacgttg taaaacgacg gccagtgaat tgaatttagg 180  
 tgacnctata gaagagctat gacgtcgcat gcacgcgtac gtaagcttgg atcctctaga 240  
 gcggccgcct actactacta aattcgcggc cgcgtcgacg tgggatccnc actgagagag 300  
 tggagagtga catgtgctgg acnctgtcca tgaagcactg agcagaagct ggaggcaca 360  
 cgcncagac actcacagct actcaggagg ctgagaacag gttgaacctg ggaggtggag 420  
 gttgcaatga gctgagatca ggcenctgcn ccccgcatg gatgacagag tgaaactcca 480  
 tcttaaaaaa aaaaaaaaaa a 501

<210> 452  
 <211> 51  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(51)  
 <223> n = A,T,C or G

<400> 452  
 agacggtttc accnttaca cnccttttag gatgggnntt ggggagcaag c 51

<210> 453  
 <211> 317  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(317)  
 <223> n = A,T,C or G

<400> 453  
 tacatcttgc tttttcccca ttggaactag tcattaaccc atctctgaac tggtagaaaa 60  
 acatctgaag agctagtcta tcagcatctg gcaagtgaat tggatggttc tcagaacccat 120  
 ttcacccana cagcctgttt ctatcctgtt taataaatta gtttgggttc tctacatgca 180  
 taacaaaccc tgctccaatc tgtcacataa aagtctgtga cttgaagttt antcagcacc 240  
 cccaccaaac tttatttttc tatgtgtttt ttgcaacata tgagtgtttt gaaaataagg 300  
 taccatgtc tttatta 317

<210> 454  
 <211> 231  
 <212> DNA

009060"6225960

<213> Homo sapiens

<400> 454

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ttcgaggtac aatcaactct cagagtgtag tttccttcta tagatgagtc agcattaata 60
taagccacgc cagctcttg aaggagtctt gaattctcct ctgctcactc agtagaacca 120
agaagaccaa attcttctgc atcccagctt gcaaacaaaa ttgttcttct aggtctccac 180
ccttcctttt tcagtgttcc aaagctctc acaatttcat gaacaacagc t 231
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<210> 455

<211> 231

<212> DNA

<213> Homo sapiens

<400> 455

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taccaaagag ggcataataa tcagtctcac agtagggttc accatcctcc aagtgaaaaa 60
cattgttccg aatgggcttt ccacaggcta cacacacaaa acaggaaaca tgccaagttt 120
gtttcaacgc attgatgact tctccaagga tcttcctttg gcatcgacca cattcagggg 180
caaagaattt ctcatagcac agtcacaat acagggtctc tttctctct a 231
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<210> 456

<211> 231

<212> DNA

<213> Homo sapiens

<400> 456

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ttggcaggta cccttacaaa gaagacacca taccttatgc gttattaggt ggaataatca 60
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tgcactcaaa ttocctttatc aggaataact acatagccac tatttacaaa gccattggaa 180
ccttttttatt tgggtgcagct gctagtcagt ccctgactga cattgccaag t 231
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<210> 457

<211> 231

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1) ... (231)

<223> n = A,T,C or G

<400> 457

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gcattcctta atatgatctt gctataatta gatttttctc cattagagtt catacagttt 120
tatttgattt tattagcaat ctctttcaga agacccttga gatcattaag ctttgtatcc 180
agttgtctaa atcgatgcct catttcctct gaggtgtcgc tggcttttgt g 231
```

<210> 458

<211> 231

<212> DNA

<213> Homo sapiens

<400> 458

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aggctctgggt cccccactt ccactcccct ctactctctc taggactggg ctgggcccaag 60
agaagagggg tgggttagga agccgttgag acctgaagcc ccaccctcta ccttccttca 120
```

acaccctaac cttgggtaac agcatttgga attatcattt gggatgagta gaatttccaa 180  
 ggtcctgggt taggcatttt ggggggccag accccaggag aagaagattc t 231

<210> 459  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<400> 459  
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 ccttcgcgaa acctgtggtg gcccaccagt cctaacggga caggacagag agacagagca 120  
 gccctgcact gttttccctc caccacagcc atcctgtccc tcattggctc tgtgctttcc 180  
 actatacaca gtcaccgtcc caatgagaaa caagaaggag caccctccac a 231

<210> 460  
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 <213> Homo sapiens

<400> 460  
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 cccacctccc cacacgcaca cgccagcct ggagcccaca gaagggtcct cctgcagcca 180  
 gtggagcttg gtccagcctc cagtccaccc ctaccaggct taaggataga a 231

<210> 461  
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 <212> DNA  
 <213> Homo sapiens

<400> 461  
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 gtggggttca gtgaggagtg ggaaattggt tcagcagAAC caagccgttg ggtgaataag 180  
 agggggattc catggcactg atagagccct atagtttcag agctgggaat t 231

<210> 462  
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 <212> DNA  
 <213> Homo sapiens

<400> 462  
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 gaagaactgt tagagagacc aacagggtag tggggttagag atttccagag tcttacattt 180  
 tctagaggag gtatttaatt tcttctcact catccagtgt tgtatttagg a 231

<210> 463  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<400> 463  
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 catttgacag gtgtcttttc ctctggacct cgggtgtcccc atctgagtaga gaaaaggcag 180  
 tggggagggtg gatcttccag tcgaagcggg atagaagccc gtgtgaaaag c 231

<210> 464  
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 <212> DNA  
 <213> Homo sapiens

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 cctgcttcag tgactgtgtg cctgtagtcc cagctactcg ggagtctgtg tgaggccagg 180  
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<210> 465  
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 <212> DNA  
 <213> Homo sapiens

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 aggatggcac aattttttgct tgtgttcata atatactcag attagttcag ctccatcaga 180  
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<210> 466  
 <211> 231  
 <212> DNA  
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<400> 466  
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 cctgtgcaat caaatattgt ggagaattcc ctagctggag aagtcacaaa gactataggc 180  
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<210> 467  
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 <212> DNA  
 <213> Homo sapiens

<400> 467  
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 tgtgccttaa cagaaggctc tgagattcta agtgggaatc atttcagtga ctgtcatgtg 180  
 gcatgggtct ctgcccgaagc tcgtaatgag actatagcaa ggcggtgtg ggacgtcagt 240  
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<210> 468  
 <211> 3112  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 468

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 <211> 2229  
 <212> DNA  
 <213> Homo sapiens

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 <211> 2426  
 <212> DNA  
 <213> Homo sapiens

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 <213> Homo sapiens

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<210> 472
<211> 515
<212> DNA
<213> Homo sapiens

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<211> 5829
<212> DNA
<213> Homo sapiens

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<211> 1594
<212> DNA
<213> Homo sapiens

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gttttcagaa ttattgtatg cagtcagtat gagaatgcaa tttaagtttc cttgatgctt 360
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gcgcacaggg tgaatgcctt cttgcttgtc ttctggggaa tcagagagag tccgttttgt 1440
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aaaccaacag ttttgtgaat gtgtctggag gcaagggag ggccactcag gatctatgtt 1560
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<210> 475
<211> 2414
<212> DNA
<213> Homo sapiens

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<220>
<221> unsure
<222> (33)
<223> n=A,T,C or G

```

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<400> 475
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agctaataat tcatgctgaa cacattttaa atgctgtaaa tgtagataat gtaatttatg 180
tatcattaat gcctctttag tagtttagag aaaacgtcaa aagaaatggc ccagaataa 240
gcttcttgat ttgtaaaatt ctatgtcatt ggctcaaatt tgtatagtat ctcaaaatat 300
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gtacttaact agatgagaat aacaggctgc cattatttga attgtctcct attcgttttt 420
catttgttgt gttactcatg ttttacttat ggggggatat atataacttc cgctgttttc 480
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tcctcctcca tccaggacct gaggggtgtc cttttctgcg cttccttgga tggcagtctt 2340
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aaaaaaaaaa aaaa                                     2414

```

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<210> 476
<211> 3434
<212> DNA
<213> Homo sapiens

```

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<400> 476
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aaaaaaaaaa aaaa 3434

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&lt;210&gt; 477

&lt;211&gt; 140

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 477

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Met Asp Gly His Thr Asp Ile Trp Arg Asn His Met Asp Thr Pro Pro
                    5                      10                      15

His Tyr His Arg Asp Thr Asp Thr Arg Arg His His His Met Asp Thr
                    20                      25                      30

Leu Ser His Tyr His Arg Asp Thr Arg His His Thr Val Thr Trp Thr
                    35                      40                      45

His His His Thr His Glu His Thr Asp Thr Leu Pro Tyr Gly His Trp
                    50                      55                      60

His Thr His Cys His Thr Val Thr Trp Thr His Leu His Thr Ile Thr
                    65                      70                      75                      80

Pro Pro His Thr Leu Pro Val Asp Thr Arg Thr His Arg His Cys His
                    85                      90                      95

Thr Asp Thr Gln Asn Thr Val Thr Arg Arg His His His Ala Asp Thr
                    100                     105                     110

Pro Pro Leu Trp Cys Arg Leu Asn Tyr Pro Ala Gly Gly Thr Ala Val
                    115                     120                     125

Ala Tyr Ser Cys Leu Ser Asp Trp Leu Ser Pro Gln
                    130                     135                     140

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&lt;210&gt; 478

&lt;211&gt; 143

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

009060"622960

&lt;400&gt; 478

Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln  
                                   5                                  10                                  15

Ser His Gly His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr  
                                   20                                  25                                  30

Gly Glu Ile Thr Trp Thr His His His Thr Ile Thr Gly Thr Gln Thr  
                                   35                                  40                                  45

His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr  
                                   50                                  55                                  60

Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr  
                                   65                                  70                                  75                                  80

Pro Thr His Cys His Met Asp Thr Gly Thr His Thr Ala Thr Leu Ser  
                                   85                                  90                                  95

His Gly His Thr Ser Thr Pro Ser His His His Thr His Cys Leu Trp  
                                   100                                  105                                  110

Thr Gln Gly His Thr Asp Thr Val Thr Gln Ile His Lys Thr Leu Ser  
                                   115                                  120                                  125

His Gly Asp Ile Thr Met Gln Ile His His His Ser Gly Ala Val  
                                   130                                  135                                  140

&lt;210&gt; 479

&lt;211&gt; 222

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 479

Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln  
                                   5                                  10                                  15

Ser His Glu His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr  
                                   20                                  25                                  30

Gly Glu Ile Thr Leu Thr His His His Thr Ile Thr Gly Thr Gln Thr  
                                   35                                  40                                  45

His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr  
                                   50                                  55                                  60

Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr  
                                   65                                  70                                  75                                  80

Pro Thr His Cys His Met Asp Thr Ala Thr His Thr Ala Thr Leu Ser  
                                   85                                  90                                  95

His Gly His Thr Ser Ile Pro Ser His His His Thr His Cys His Val

009060"024965D

100 105 110  
 Asp Thr Arg Thr His Arg His Cys His Thr Asp Thr Gln Asn Thr Val  
 115 120 125  
 Thr Arg Arg His His His Ala Asp Thr Pro Pro His Gly His Ser Thr  
 130 135 140  
 Arg His Ser Ala Thr Gln Ile His His His Thr Glu Met Arg Thr His  
 145 150 155 160  
 Cys His Thr Asp Thr Thr Thr Ser Leu Pro His Phe His Val Ser Ala  
 165 170 175  
 Gly Gly Val Gly Pro Thr Thr Leu Gly Ser Asn Arg Glu Ile Thr Trp  
 180 185 190  
 Thr Tyr Ser Glu Gly Lys Ile Phe Phe Tyr Phe Leu Gly Asn Gln Ala  
 195 200 205  
 Arg Leu Cys Leu Lys Lys Arg Lys Lys Lys Gln Tyr Thr Val  
 210 215 220  
  
 <210> 480  
 <211> 144  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 480  
 Met Glu Pro Tyr Arg Gly Asn Glu Gln Pro Ser Gln Glu Gln Gly Val  
 5 10 15  
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 20 25 30  
 Val Gly Phe Leu Val Val Lys Arg Gln Thr Ile Gly Arg Leu Glu Arg  
 35 40 45  
 Asp Phe Met Phe Lys Cys Arg Lys Gln Pro Gly Leu Pro Pro Ser Gly  
 50 55 60  
 Leu Cys Leu Leu Trp Pro Trp Pro Asn Leu Glu Phe Gly Arg Arg Gln  
 65 70 75 80  
 Asp Arg Leu Thr Trp Ser Ser Val Ser Val Ala Gly Val Cys Ala Cys  
 85 90 95  
 Arg Ala Arg Pro Gly Trp Leu Gly Glu Gln Pro Ala Thr Ser Ala Gly  
 100 105 110  
 Val Arg Leu Glu Gln Val Glu Gln Pro Pro Ala His Pro Leu Gln Glu  
 115 120 125

009060"622960

<400> 482  
Met Glu Pro Tyr Arg Gly Asn Lys Lys Gln Val Gln Glu Lys Gly Val

5 10 15  
 Pro Cys Leu Trp Gly Ser Ser Pro Cys Leu Arg Cys His Met Ala Leu  
 20 25 30  
 Arg Ala Ser Trp Leu Pro Gly Gly Gly Pro Gln Ala Ile Leu Gly Arg  
 35 40 45  
 Thr Leu Cys Ser Ser Ala Glu Ser Ser Gln Asp Cys His Pro Gly Gly  
 50 55 60  
 Pro Ser Ile Ala Leu Ala Lys Pro Cys Arg Gly Val Trp Leu Leu Phe  
 65 70 75 80  
 Glu Pro Ala Trp Pro Pro Trp His Ala Arg Ala Pro Gly Ala Gly Thr  
 85 90 95  
 Leu Leu Arg Val Cys Leu Ser Cys Leu Gly Cys His Leu Cys Gly Gly  
 100 105 110  
 Ala Ser Gly Gly Gly Gly Pro Ala Thr Asn Leu Thr Gln Ser Arg Lys  
 115 120 125  
 Trp Met Ala Met Phe Pro Gln Pro Glu Trp Leu Pro Pro Asp Gly  
 130 135 140  
  
 <210> 483  
 <211> 143  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 483  
 Met Glu Thr Gln Arg Gly Asn Lys Gln Arg Ala Gln Glu Gln Gly Val  
 5 10 15  
 Cys Cys Leu Trp Gly Ser Ser Pro Cys Leu Gly Ser Tyr Gly Thr Ala  
 20 25 30  
 Gly Phe Leu Val Ala Lys Arg Arg Thr Thr Gly Leu Leu Glu Glu Asp  
 35 40 45  
 Phe Thr Phe Lys Cys Arg Lys Gln Pro Lys Leu Pro Ser Met Arg Leu  
 50 55 60  
 Ser Leu Leu Trp Pro Trp Arg Asp Leu Lys Phe Val Pro Arg Gln Asp  
 65 70 75 80  
 Lys Leu Thr Arg Ser Ser Val Ser Val Ala Gly Ala Tyr Ala Cys Arg  
 85 90 95  
 Ala Gly Pro Gly Trp Leu Lys Glu Gln Pro Ala Thr Ser Ala Arg Val  
 100 105 110

009060"6225950

Arg Leu Val Gln Ala Glu His Pro Pro Pro His Pro Leu Glu Glu Val  
 115 120 125

Gly Met Ala Arg Phe Pro Gln Pro Glu Cys Leu Pro Pro Tyr Cys  
 130 135 140

<210> 484  
 <211> 30  
 <212> PRT  
 <213> Homo Sapien

<400> 484  
 Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe  
 1 5 10 15  
 Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile  
 20 25 30

<210> 485  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 485  
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31

<210> 486  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 486  
 gcgaattctc acgctgagta tttggcc

27

<210> 487  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 487  
 cccgaattct tagctgccca tccgaacgcc ttcac

36

<210> 488  
 <211> 33  
 <212> DNA  
 <213> Artificial Sequence

005060"6225960

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 488

gggaagcttc ttccccggct gcaccagctg tgc

33

&lt;210&gt; 489

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 489

Met	Asp	Arg	Leu	Val	Gln	Arg	Phe	Gly	Thr	Arg	Ala	Val	Tyr	Leu	Ala
1				5					10					15	

Ser Val Ala

&lt;210&gt; 490

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 490

Tyr	Leu	Ala	Ser	Val	Ala	Ala	Phe	Pro	Val	Ala	Ala	Gly	Ala	Thr	Cys
1				5					10					15	

Leu	Ser	His	Ser												
				20											

&lt;210&gt; 491

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 491

Thr	Cys	Leu	Ser	His	Ser	Val	Ala	Val	Val	Thr	Ala	Ser	Ala	Ala	Leu
1				5					10					15	

Thr	Gly	Phe	Thr												
				20											

&lt;210&gt; 492

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

000000 " 5/2/95 00

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 492

Ala	Leu	Thr	Gly	Phe	Thr	Phe	Ser	Ala	Leu	Gln	Ile	Leu	Pro	Tyr	Thr
1				5					10					15	
Leu	Ala	Ser	Leu												
			20												

&lt;210&gt; 493

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 493

Tyr	Thr	Leu	Ala	Ser	Leu	Tyr	His	Arg	Glu	Lys	Gln	Val	Phe	Leu	Pro
1				5					10					15	
Lys	Tyr	Arg	Gly												
			20												

&lt;210&gt; 494

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 494

Leu	Pro	Lys	Tyr	Arg	Gly	Asp	Thr	Gly	Gly	Ala	Ser	Ser	Glu	Asp	Ser
1				5					10					15	
Leu	Met	Ile	Ser												
			20												

&lt;210&gt; 495

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 495

Asp	Ser	Leu	Met	Thr	Ser	Phe	Leu	Pro	Gly	Pro	Lys	Pro	Gly	Ala	Pro
1				5					10					15	
Phe	Pro	Asn	Gly												
			20												

&lt;210&gt; 496

&lt;211&gt; 21

009060" 6229960

<212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 496  
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 1 5 10 15  
 Pro Pro Pro Pro Ala  
 20

<210> 497  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 497  
 Leu Leu Pro Pro Pro Pro Ala Leu Cys Gly Ala Ser Ala Cys Asp Val  
 1 5 10 15  
 Ser Val Arg Val  
 20

<210> 498  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 498  
 Asp Val Ser Val Arg Val Val Val Gly Glu Pro Thr Glu Ala Arg Val  
 1 5 10 15  
 Val Pro Gly Arg  
 20

<210> 499  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 499  
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 1 5 10 15  
 Ser Ala Phe Leu  
 20

009060" 6.22.99

<210> 500  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 500  
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 1 5 10 15  
 Gly Ser Ile Val  
 20

<210> 501  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 501  
 Phe Met Gly Ser Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met  
 1 5 10 15  
 Val Ser Ala Ala  
 20

<210> 502  
 <211> 414  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(414)  
 <223> n=A,T,C or G

<400> 502  
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 tcagtcggtg gaggagtccg ggggtcgct ggtcacgcct gggacacctt tgacantcac 120  
 ctgtagagtt tttggaatng acctcagtag caatgcaatg agctgggtcc gccaggctcc 180  
 agggaagggg ctggaatgga tcggagccat tgataattgt ccacantacg cgacctgggc 240  
 gaaaggccga tttnatnattt ccaaaacctn gaccacggtg gatttgaaaa tgaccagtcc 300  
 gacaaccgag gacacggcca cctatttttg tggcagaatg aatactggta atagtgggtg 360  
 gaagaatatt tggggcccag gcaccctggt caccgtntcc tcagggcaac ctaa 414

<210> 503  
 <211> 379  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature

003060"6225950

<222> (1)...(379)  
 <223> n=A,T,C or G

<400> 503  
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 ctgggtcacgc ctgggacacc cctgacactc acctgcaccg tntctggatt ngacatcagt 120  
 agctatggag tgagctgggt ccgccaggct ccagggaagg ggctggnata catcggatca 180  
 ttagtagtag tggtagatctt tacgcgagct gggcgaaagg ccgattcacc atttccaaaa 240  
 cctngaccac ggtggatttg aaaatcacca gtttgacaac cgaggacacg gccacctatt 300  
 tntgtgccag agggggggttt aattataaag acatttgggg cccaggcacc ctgggtcacgc 360  
 tntccttagg gcaacctaa 379

<210> 504  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 504  
 Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp Ser Pro Tyr Phe Lys Glu  
 1 5 10 15  
 Asn Ser Ala

<210> 505  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 505  
 Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn Asp Asn Val Thr  
 1 5 10 15  
 Asn Thr Ala Asn  
 20

<210> 506  
 <211> 407  
 <212> DNA  
 <213> Homo Sapien

<400> 506  
 atggagacag gcctgcgctg gcttctcctg gtcgctgcgc tcaaagggtg ccagtgtcag 60  
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 accgtctctg gattctccct cagtagcaat gcaatgatct gggtcgcga ggctccaggg 180  
 aaggggctgg aatacatcgg atacattagt tatgggtggtg gcgcatacta cgcgagctgg 240  
 gtgaaaggcc gattcaccat ctccaaaacc tcgaccacgg tggatctgag aatgaccagt 300  
 ctgacaaccg aggacacggc cacctatttc tgtgccagaa atagtgattt tagtggtatg 360  
 ttgtggggcc caggcacctt ggtcacctgc tcctcagggc aacctaa 407

009060 "6225960

<210> 507  
 <211> 422  
 <212> DNA  
 <213> Homo Sapien

<400> 507  
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 tcggtggagg agtccggggg tcgcctgggc acgcctggga caccctgac actcacctgt 120  
 acagtctctg gattctccct cagcaactac gacctgaact gggccgcca ggctccaggg 180  
 aaggggctgg aatggatcgg gatcattaat tatgttggtg ggacggacta cgcgaactgg 240  
 gcaaaaggcc ggttcaccat ctccaaaacc tcgaccaccg tggatctcaa gatcgccagt 300  
 ccgacaaccg aggacacggc cacctatttc tgtgccagag ggtggaagtg cgatgagtct 360  
 ggtccgtgct tgcgcattct gggcccaggc accctgggtc ccgtctcctt agggcaacct 420  
 aa 422

<210> 508  
 <211> 411  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(411)  
 <223> n=A,T,C or G

<400> 508  
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 cggtggaggga gtccgggggt cgccctggta cgccctggac acccctgaca ctcacctgca 120  
 cagtctctgg aatcgacctc agtagctact gcatgagctg ggtccgccag gctccaggga 180  
 aggggctgga atggatcgga atcattggta ctccctgggtg cacatactac gcgaggtggg 240  
 cgaaaaggccg attcaccatc tccaaaacct cgaccacggt gcatntgaaa atcnccagtc 300  
 cgacaaccga ggacacggcc acctatttct gtgccagaga tcttcgggat ggtagtagta 360  
 ctggttatta taaaatctgg ggcccaggca cccctggtcac cgtctccttg g 411

<210> 509  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 509  
 Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser  
 1 5 10 15

<210> 510  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 510  
 Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile  
 1 5 10 15

<210> 511  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 511

Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gly Gln Asp Gln Lys  
 1 5 10 15

<210> 512  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 512  
 Asp Ser Gly Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu  
 1 5 10 15

<210> 513  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 513  
 Ala Pro Cys Gly Gln Val Gly Val Pro Asx Val Tyr Thr Asn Leu  
 1 5 10 15

<210> 514  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 514  
 Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser  
 1 5 10 15

0099060" 6.2.2.9950

<210> 515  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 515  
 Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg  
 1 5 10 15

<210> 516  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 516  
 Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln  
 1 5 10 15

<210> 517  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 517  
 Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met  
 1 5 10 15

<210> 518  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 518  
 Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly  
 1 5 10 15

<210> 519  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>

009060" 6225960

<223> Made in a lab

<400> 519

Arg	Ala	Glu	Pro	Gly	Thr	Glu	Ala	Arg	Arg	Asn	Tyr	Asp	Glu	Gly	Cys
1				5				10					15		
Gly															

<210> 520

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 520

Val	Gly	Glu	Gly	Leu	Tyr	Gln	Gly	Val	Pro	Arg	Ala	Glu	Pro	Gly	Thr
1				5				10						15	
Glu	Ala	Arg	Arg	His	Tyr	Asp	Glu	Gly							
			20				25								

<210> 521

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 521

Ala	Pro	Phe	Pro	Asn	Gly	His	Val	Gly	Ala	Gly	Gly	Ser	Gly	Leu	Leu
1				5				10						15	
Pro	Pro	Pro	Pro	Ala											
				20											

<210> 522

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 522

Leu	Leu	Val	Val	Pro	Ala	Ile	Lys	Lys	Asp	Tyr	Gly	Ser	Gln	Glu	Asp
1				5				10						15	
Phe	Thr	Gln	Val												
			20												

<210> 523

<211> 254

<212> PRT

<213> Artificial Sequence

009060" 6/2/5960

<220>  
<223> Made in a lab

<220>  
<221> VARIANT  
<222> (1)...(254)  
<223> Xaa = any amino acid

<400> 523

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Met Ala Thr Ala Gly Asn Pro Trp Gly Trp Phe Leu Gly Tyr Leu Ile
 1          5          10          15
Leu Gly Val Ala Gly Ser Leu Val Ser Gly Ser Cys Ser Gln Ile Ile
          20          25          30
Asn Gly Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu
          35          40          45
Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln
          50          55          60
Trp Val Leu Ser Ala Thr His Cys Phe Gln Asn Ser Tyr Thr Ile Gly
          65          70          75          80
Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met
          85          90          95
Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu
          100          105          110
Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu
          115          120          125
Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala
          130          135          140
Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg
          145          150          155          160
Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu
          165          170          175
Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys
          180          185          190
Ala Gly Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser Gly
          195          200          205
Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly
          210          215          220
Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu
          225          230          235          240
Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
          245          250

```

<210> 524  
<211> 765  
<212> DNA  
<213> Homo sapien

<400> 524

```

atggccacag caggaaatcc ctggggctgg ttctctggggt acctcatcct tgggtgtcgca      60
ggatcgctcg tctctggtag ctgcagccaa atcataaacg gcgaggactg cagcccgcac      120
tcgcagccct ggcaggcggc actgggtcatg gaaaacgaat tgttctgctc gggcgctcctg      180
gtgcatccgc agtgggtgct gtcagccgca cactgtttcc agaactccta caccatcggg      240
ctgggcctgc acagtcttga ggccgaccaa gagccagggg gccagatggt ggaggccagc      300

```

009060" 622960

```
<210> 525
<211> 254
<212> PRT
<213> Homo sapien
```

```
<210> 526
<211> 963
<212> DNA
<213> Homo sapiens
```

<400> 526

```

atgagttcct gcaacttcac acatgccacc tttgtgctta ttggtatccc aggattagag 60
aaagccatt tctgggttgg cttccccctc ctttccatgt atgtagtggc aatgtttgga 120
aactgcatcg tgggtcttcat cgtaaggacg gaacgcagcc tgcacgctcc gatgtacctc 180
tttctctgca tgcttgacgc cattgacctg gccttatcca catccaccat gcctaagatc 240
cttgcccttt tctggtttga ttcccgagag attagctttg aggctgtct taccagatg 300
ttctttattc atgccctctc agccattgaa tccaccatcc tgctggccat ggcctttgac 360
cgttatgtgg ccatctgcca cccactgcgc catgctgcag tgctcaacaa tacagtaaca 420
gcccagattg gcatcgtggc tgtgggtcgc ggatccctct tttttttccc actgcctctg 480
ctgatcaagc ggctggcctt ctgccactcc aatgtcctct cgcactccta ttgtgtccac 540
caggatgtaa tgaagttggc ctatgcagac actttgccca atgtggtata tggctctact 600
gccattctgc tgggtcatggg cgtggacgta atgttcatct ccttgctcta ttttctgata 660
atacgaacgg ttctgcaact gccttccaag tcagagcggg ccaaggcctt tggaacctgt 720
gtgtcacaca ttggtgtggt actcgccttc tatgtgccac ttattggcct ctcatgtgta 780
caccgctttg gaaacagcct tcatcccat gtgcgtgttg tcatgggtga catctacctg 840
ctgctgcctc ctgtcatcaa tcccatcatc tatggtgccaa aaaccaaaca gatcagaaca 900
cgggtgctgg ctatgttcaa gatcagctgt gacaaggact tgcaggctgt gggaggcaag 960
tga

```

<210> 527

<211> 320

<212> PRT

<213> Homo sapiens

<400> 527

```

Met Ser Ser Cys Asn Phe Thr His Ala Thr Phe Val Leu Ile Gly Ile
      5                                10                                15

```

```

Pro Gly Leu Glu Lys Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser
      20                                25                                30

```

```

Met Tyr Val Val Ala Met Phe Gly Asn Cys Ile Val Val Phe Ile Val
      35                                40                                45

```

```

Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met
      50                                55                                60

```

```

Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile
      65                                70                                75                                80

```

```

Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys
      85                                90                                95

```

```

Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr
      100                               105                               110

```

```

Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro
      115                               120                               125

```

```

Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly
      130                               135                               140

```

```

Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu
      145                               150                               155                               160

```

009060"6225960

Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser  
 165 170 175  
 Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu  
 180 185 190  
 Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val  
 195 200 205  
 Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val  
 210 215 220  
 Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys  
 225 230 235 240  
 Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly  
 245 250 255  
 Leu Ser Val Val His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg  
 260 265 270  
 Val Val Met Gly Asp Ile Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro  
 275 280 285  
 Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala  
 290 295 300  
 Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala Val Gly Gly Lys  
 305 310 315 320

<210> 528  
 <211> 20  
 <212> DNA  
 <213> Homo Sapien

<400> 528  
 actatggtcc agaggctgtg 20

<210> 529  
 <211> 20  
 <212> DNA  
 <213> Homo Sapien

<400> 529  
 atcacctatg tgccgcctct 20

<210> 530  
 <211> 1852  
 <212> DNA  
 <213> Homo sapiens

<400> 530  
 ggcacgagaa ttaaaaccct cagcaaaaca ggcatagaag ggacatacct taaagtaata 60  
 aaaaccacct atgacaagcc cacagccaac ataatactaa atgggggaaaa gttagaagca 120

```

tttctcttga gaactgcaac aataaatata aggatgctgg attttgtcaa atgccttttc 180
tgtgtctgtt gagatgctta tgtgactttg cttttaattc tgtttatgtg attatcacat 240
ttattgactt gcctgtgtta gaccggaaga gctgggggtg ttctcaggag ccaccgtgtg 300
ctgcggcagc ttcgggataa cttgaggctg catcactggg gaagaaacac aytctgtgcc 360
gtggcgctga tggctgagga cagagcttca gtgtggcttc tctgcgactg gcttcttcgg 420
ggagtctctt cttcatagtt catccatatg gctccagagg aaaattatat tattttgtta 480
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ccatcgtgca tgcactcttc atttctgca tttcttcctc cctggatgga cagggggagc 780
ggcaagagca acgtgggcac ttctggagac cacaacgact cctctgtgaa gacgcttggg 840
agcaagaggt gcaagtgggt ctgccactgc ttccctgctg gcagggggag cggcaagagc 900
aacgtggctg cttggggaga ctacgatgac agcgcttca tggatcccag gtaccacgtc 960
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tgccaggaag atgaatgtgc gttaatgttg ctggaacatg gcactgatcc aaatattcca 1260
gatgagtatg gaaataccac tctacactat gctgtctaca atgaagataa attaatggcc 1320
aaagcactgc tcttatacgg tgctgatatc gaatcaaaaa acaagcatgg cctcacacca 1380
ctgctacttg gtatacatga gcaaaaaacag caagtgggtg aatttttaat caagaaaaaa 1440
gccaatttaa atgcgctgga tagatatgga agaactgctc tcatacttgc tgtatgttgt 1500
ggatcagcaa gtatagtcag cctctactt gagcaaaatg ttgatgtatc ttctcaagat 1560
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tttctgacta caaagaaaaa cagatgttaa aaatctcttc tgaaaacagc aatccagaac 1680
aagacttaaa gctgacatca gaggaagagt cacaaaggct taaaggaagt gaaaacagcc 1740
agccagagct agaagattta tggctattga agaagaatga agaacacgga agtactcatg 1800
tgggattccc agaaaacctg actaacggtg ccgctgctgg caatggtgat ga 1852

```

<210> 531  
 <211> 879  
 <212> DNA  
 <213> Homo sapiens

```

<400> 531
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tgcaagtggg gctgccactg cttcccttgc tgcaggggga gcggaagag caacgtgggtc 180
gcttggggag actacgatga cagcgcttgc atggatccca ggtaccacgt ccatggagaa 240
gatctggaca agctccacag agctgcctgg tggggtaaag tccccagaaa ggatctcatc 300
gtcatgctca gggacacgga tgtgaacaag agggacaagc aaaagaggac tgctctacat 360
ctggcctctg ccaatgggaa ttcagaagta gtaaaactcg tgctggacag acgatgtcaa 420
cttaatgtcc ttgacaacaa aaagaggaca gctctgacaa aggccgtaca atgccaggaa 480
gatgaatgtg cgttaatgtt gctggaacat ggcactgatc caaatattcc agatgagtat 540
ggaaatacca ctctacacta tgctgtctac aatgaagata aattaatggc caaagcactg 600
ctcttatacg gtgctgatat cgaatcaaaa aacaagcatg gcctcacacc actgctactt 660
ggtatacatg agcaaaaaa gcaagtgggt aaatttttaa tcaagaaaaa agcgaattta 720
aatgcgctgg atagatatgg aagaactgct ctcatcttg ctgtatgttg tggatcagca 780
agtatagtca gccctctact tgagcaaaat gttgatgtat cttctcaaga tctggaaaaga 840
cggccagaga gtatgctgtt tctagtcatc atcatgtaa 879

```

<210> 532  
 <211> 292

<213> Homo sapiens

Met His Leu Ser Phe Pro Ala Phe Leu Pro Pro Trp Met Asp Arg Gly  
5 10 15

Val Lys Thr Leu Gly Ser Lys Arg Cys Lys Trp Cys Cys His Cys Phe  
35 40 45

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp  
50 55 60

Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu  
65 70 75 80

Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg  
85 90 95

Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp  
100 105 110

Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser  
115 120 125

Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu  
130 135 140

Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu  
145 150 155 160

Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile  
165 170 175

Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu  
180 185 190

Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu  
195 200 205

Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu  
210 215 220

Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu  
225 230 235 240

Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys  
245 250 255

Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp  
260 265 270

Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu Ser Met Leu Phe Leu  
 275 280 285

Val Ile Ile Met  
 290

<210> 533  
 <211> 801  
 <212> DNA  
 <213> Homo sapiens

<400> 533  
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 gcaggctcag gagcagggtta tgcgctgcct tcggctctcc aatccatgcc tcagggtctcc 120  
 tatgccactg cagcattctt ggttgccaag aggccaacca caggccatct tgagaaggag 180  
 tttatgttcc actgcagaaa gcagccagga tcaccatcca ggggacttgg tcttctgtgg 240  
 ccctggccag acatagaatt tgtgccaagg caggacaagc tcactcagag cagcgtgtta 300  
 gtacctcaaa tctgtgcgtg ccagacaagg ccaaactggc tcaatgagca accagccacc 360  
 tctgcagggg tgcgtctgga ggaggtggac cagccaccaa ccttaccag tcaaggaagt 420  
 ggatggccat gttcccacag cctgagtggc tgccacctga tggctgatat agcaaaggcc 480  
 ttaggaaaag cagatggccc ttggccctac ctttttgta gaagaactga tgttccatgt 540  
 cctgcagcga gtgaggttgg tggctgtgcc cccagctcct ggcacaccct cgcagaggtg 600  
 actggttget ctttgagccc tcttagcctt gccagcatg cacaagcctc agtgctacta 660  
 ctgtgctaca aatggagcca tataggggaa acgagcagcc atctcaggag caaggtgtat 720  
 gctgcctttg ggggtccag tccttgctc aagggtctta tgtcactgtg ggcttcttgg 780  
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Gln	Leu	Gln	Tyr 595	Leu	Lys	Ala	Ala 600	Ser	Gln	Ile	Leu	Ile 605	Leu	Lys	Asp								
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Pro	Ile	Gly	Arg 820	Ile	Leu	Asn	Arg	Phe 825	Ser	Lys	Asp	Ile	Gly 830	His	Leu
Asp	Asp	Leu 835	Leu	Pro	Leu	Thr	Phe 840	Leu	Asp	Phe	Ile	Gln 845	Thr	Leu	Leu
Gln 850	Val	Val	Gly	Val	Val	Ser 855	Val	Ala	Val	Ala	Val 860	Ile	Pro	Trp	Ile
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 Tyr Leu Val Leu Gly Ile Phe Thr Leu Ile Glu Glu Ser Ala Lys Val  
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 Val Leu Thr Phe Cys Thr Leu Ile Leu Ala Ile Leu His His Leu Tyr  
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 Phe Tyr His Val Gln Cys Ala Gly Met Arg Leu Arg Val Ala Met Cys  
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 Lys Phe Asp Gln Val Thr Val Phe Leu His Phe Leu Trp Ala Gly Pro  
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Tyr	Leu	Gly	Ile	Tyr	Ser	Gly	Leu	Thr	Val	Ala	Thr	Val	Leu	Phe	Gly
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Thr	Leu	His	Asn	Lys	Met	Phe	Glu	Ser	Ile	Leu	Lys	Ala	Pro	Val	Leu
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Val Ile Pro Trp	Ile Ala Ile Pro Leu Val Pro Leu Gly Ile Ile Phe					
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Glu Asn Met Met Ile Ser Val Glu Arg Val Ile Glu Tyr Thr Asp Leu						
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Leu Ile Ser Ala Leu Phe Arg Leu Ser Glu Pro Glu Gly Lys Ile Trp						
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Gly Lys Met Asp Thr Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val 1125	1130	1135
Gly Gln Arg Gln Leu Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn 1140	1145	1150
Gln Ile Leu Ile Ile Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr 1155	1160	1165
Asp Glu Leu Ile Gln Lys Lys Ile Arg Glu Lys Phe Ala His Cys Thr 1170	1175	1180
Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys 1185	1190	1195 1200
Ile Met Val Leu Asp Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr 1205	1210	1215
Val Leu Leu Gln Asn Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln 1220	1225	1230
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Thr Gln Val Val Phe Asp Lys Ser Asp Leu Ala Lys Tyr Ser Ala

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10

15

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Phe Met Gly Ser Ile Val Gln Leu Ser Gln Ser Val

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10

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&lt;400&gt; 544

Thr Tyr Val Pro Pro Leu Leu Leu Glu Val Gly Val Glu Glu Lys Phe

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10

15

Met Thr

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<211> 58

<212> PRT

<213> Homo sapiens

<400> 553

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Val Leu Asn Ser Gln Ala Thr Asp Ser Tyr Gln Ser Thr Asp Tyr Tyr  
 35 40 45

Glu Pro His His Thr Gly Gly Gly Glu His  
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<211> 59

<212> PRT

<213> Homo sapiens

<400> 554

009060" 622960

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<212> PRT
<213> Homo sapiens
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<210> 556
<211> 81
<212> PRT
<213> Homo sapiens
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<400> 556
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      20                      25                      30

Arg Gln Ala Lys Glu Ala Ser Pro Val Leu Thr Ala Thr Arg His Gly
      35                      40                      45

Ser Tyr Tyr Ser Leu Asn Ser Ala Ser Thr Gln Ile Ser Asp Asn Ile
      50                      55                      60

Arg Asn Ser Leu Glu His Glu Pro Cys Cys Glu Leu Pro Ile Arg Arg

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65

70

75

80

Ile

&lt;210&gt; 557

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 557

Ser Leu Ser Ala Thr Pro Leu Thr Leu Trp Asn Ser Ser Asp Pro Leu  
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Glu Gln Ala Tyr Leu Ile Ser Ala Arg Glu Lys Thr Asn Asn Gly Leu  
                                   20                                  25                                  30

Lys Gly Ser Leu Thr Met Lys Val Ser Ala Asn Ser Trp Leu Arg Cys  
                                   35                                  40                                  45

Gly Phe His Ile Arg Phe  
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&lt;210&gt; 558

&lt;211&gt; 77

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(77)

&lt;223&gt; Xaa = Any amino acid

&lt;400&gt; 558

Asn Asp Arg Asp Arg Asn Ser Asn Lys Val Ile Xaa Lys Ala Asn Leu  
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Ile Tyr Phe Thr Asn Leu Thr Ser Cys Leu Ser Val Gln Asn Gln Thr  
                                   20                                  25                                  30

Phe Thr Cys Thr Lys Arg His Lys His Leu Gln Cys Ser Ser Val His  
                                   35                                  40                                  45

Leu Cys Lys Ile Pro Pro Arg Leu Lys Gly Arg Asp Lys Lys Lys Lys  
                                   50                                  55                                  60

Pro Ser Tyr Leu Ser Gly Val Leu His Ser Arg Ser Tyr  
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&lt;210&gt; 559

&lt;211&gt; 50

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<212> PRT  
 <213> Homo sapiens

<400> 559  
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 Thr Asn Pro Val Val Asn Cys Leu Ser Glu Gly Ser Arg Leu Cys Ala  
                           20                          25                          30  
 Ser Tyr Glu Asn Leu Met Pro Asp Asp Leu Ser Leu Ser His Phe Ala  
                           35                          40                          45  
 Pro Arg  
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<210> 560  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens  
 <400> 560  
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 Glu Gly Ser Tyr Gly Thr Phe Tyr Cys Pro Arg Phe Tyr Thr Gly Tyr  
                           20                          25                          30  
 Lys Gly Ala Ser Gln Tyr Arg Ser Gly Ser Lys Glu Glu Glu Thr Asn  
                           35                          40                          45  
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<210> 561  
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<220>  
 <221> VARIANT  
 <222> (1)...(57)  
 <223> Xaa = Any amino acid

<400> 561  
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 Gly Leu Lys Ser Pro Glu Ile Lys Asn Pro Ala Pro Thr Gly Thr Ser  
                           20                          25                          30  
 Asn Leu Ser Cys Phe Leu Ser Xaa Phe Trp Leu Met Gln Gly Thr Asn

005960" 522960

35

40

45

Ser Leu Pro Arg Glu Asn Tyr Leu Asn  
 50 55

<210> 562  
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 <213> Homo sapiens

<220>  
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 <222> (1)...(59)  
 <223> Xaa = Any amino acid

<400> 562  
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 Ile Ser Tyr Leu Xaa Leu Glu Met Ser Ser Leu Ser Glu Ser Leu Val  
 35 40 45  
 Leu Ser Ser Gly Asp Tyr Val Leu Asp Thr Pro  
 50 55

<210> 563  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<400> 563  
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 5 10 15  
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 20 25 30  
 Thr Gln Asn Glu Gln Ile Asp Pro Ser Pro His Ile Gln Asn Leu Met  
 35 40 45  
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 50 55 60  
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 65 70 75

<210> 564  
 <211> 64

009060" 6125960

<212> PRT  
 <213> Homo sapiens

<400> 564  
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                     20                    25                    30  
 Val Arg His Leu Tyr Ile Leu Tyr Arg Thr Leu Gly Ser Arg Lys Ser  
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<210> 565  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
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 <223> Xaa = Any amino acid

<400> 565  
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                     20                    25                    30  
 Asn Ile Asp Val Ser Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu  
                     35                    40                    45  
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<210> 566  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 566  
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 Lys Thr Val Pro Phe Ile Lys Ser Glu Gly Gly Glu Lys Lys Gly His  
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45

<400> 569

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<210> 570

<211> 951

<212> DNA

<213> Homo sapiens

<400> 570

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<210> 571

<211> 819

<212> DNA

<213> Homo sapiens

<400> 571

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<210> 572

<211> 203

<212> DNA

<213> Homo sapiens

<400> 572

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<210> 573

<211> 132

<212> PRT

<213> Homo sapiens

<400> 573

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Arg Glu Arg Val Arg Gly Glu Thr Ala Thr Asn Phe Phe Phe Leu Arg
          20                      25                      30

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Gln Glu Ser Gly Pro Val Ala Gln Ala Gly Val Gln Trp His Asp Leu
          35                      40                      45

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Ser Ser Leu Gln Pro Leu Pro His Arg Phe Lys Gln Phe Ser Cys Leu
          50                      55                      60

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Ser Leu Pro His Ser Trp Asp His Arg Tyr Ala Pro Pro His Leu Ala
          65                      70                      75                      80

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Asn Phe Cys Ser Phe Ser Arg Asp Gly Val Ser Leu Cys Cys Ser Gly
          85                      90                      95

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Trp Ser Lys Thr Pro Gly Leu Gln Gln Ser Ala Cys Leu Gly Leu Pro

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100                      105                      110  
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 Leu Leu Asn Tyr  
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<210> 574  
 <211> 62  
 <212> PRT  
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<400> 574  
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                                  20                      25                      30  
 Glu Arg Thr Ser Glu Gly Gly Asp Cys His Lys Leu Phe Phe Phe Glu  
                                  35                      40                      45  
 Thr Arg Val Trp Pro Cys Cys Pro Gly Trp Ser Ala Val Ala  
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<210> 575  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 575  
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                                  20                      25                      30  
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<210> 576  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

009060"625960

<223> Xaa = Any Amino Acid

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Gln Pro His  
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<210> 579  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 579  
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                           5                          10                          15

Leu Tyr Ile Arg His His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr  
                           20                          25                          30

Lys Lys Leu Asn Tyr Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His  
                           35                          40                          45

Ile Ala Lys Val Tyr Gln Pro His  
           50                          55

<210> 580  
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 <212> PRT  
 <213> Homo sapiens

<400> 580  
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Cys Val Thr Ala Leu Lys Ala Ala Gly Pro Pro Leu Thr Phe Trp Lys  
                           20                          25                          30

Gly Lys Trp Val Gln Cys Cys Leu Pro Leu Trp Gly Leu Leu Gly Ser  
           35                          40                          45

His Ala Phe Tyr Ile Tyr Ala Val Asp Ile Phe Met Phe Pro Gly Ser  
           50                          55                          60

Phe Ile His  
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<210> 581  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 581

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Met Leu Glu Val Lys Phe Glu Val Ser Leu Arg Pro Thr Gly Asn Glu  
                           5                          10                          15  
 Thr Ala Gly Gln Thr His Gly Thr Gln Asp Lys Gly Ser Lys Asp Ser  
                           20                          25                          30  
 Thr Ala Ala Asp Ile Leu Cys Asp Ser Leu Glu Ser Ser Arg Pro Ala  
                           35                          40                          45  
 Ala His Ile Leu Glu Gly Lys Met Gly Thr Met Leu Ser Ala Thr Leu  
                           50                          55                          60  
 Gly Pro Ser Trp Val Thr Cys Ile Leu His Leu Cys Ser  
                           65                          70                          75

<210> 582  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 582  
 Met Leu Phe Leu Gln Thr Ile Asp Thr Lys Cys Thr Gly Ile Glu Ile  
                           5                          10                          15  
 Asn Arg Asn Trp Ser Lys Val Trp His Thr His Ser His Val Asp Val  
                           20                          25                          30  
 Lys Leu Cys Leu Glu Phe Leu Cys Gly Val Trp Phe Gly Leu Gly Phe  
                           35                          40                          45  
 Leu Gly Val  
                           50

<210> 583  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 583  
 Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg  
                           5                          10                          15  
 Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro  
                           20                          25                          30  
 Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly  
                           35                          40                          45  
 Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys  
                           50                          55                          60

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<210> 584  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 584  
 Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys  
                             5                            10                            15  
 Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg  
                             20                            25                            30  
 Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro  
                             35                            40                            45  
 Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly  
                             50                            55                            60  
 Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys  
                             65                            70                            75

<210> 585  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 585  
 Met Val Tyr Arg Phe Gly Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu  
                             5                            10                            15  
 Ala Ser Leu Gly Ser Ser Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp  
                             20                            25                            30  
 Arg Gln Ala Asp Pro Ser Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu  
                             35                            40                            45  
 Leu Phe  
                             50

<210> 586  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 586  
 Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly  
                             5                            10                            15  
 Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser  
                             20                            25                            30  
 Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser

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35

40

45

Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe  
 50 55 60

<210> 587  
 <211> 1408  
 <212> DNA  
 <213> Homo sapiens

<400> 587  
 ctggacactt tgcgagggt tttgctggct gctgctgctg cccgtcatgc tactcatcgt 60  
 agcccgcccg gtgaagctcg ctgctttccc tacctcctta agtgactgcc aaacgcccac 120  
 cggctggaat tgctctgggt atgatgacag agaaaatgat ctcttcctct gtgacaccaa 180  
 cacctgtaaa tttgatgggg aatgtttaag aattggagac actgtgactt gcgtctgtca 240  
 gttcaagtgc aacaatgact atgtgcctgt gtgtggctcc aatggggaga gctaccagaa 300  
 tgagtgttac ctgcgacagg ctgcatgcaa acagcagagt gagatacttg tgggtgtcaga 360  
 aggatcatgt gccacagatg caggatcagg atctggagat ggagtccatg aaggctctgg 420  
 agaaactagt caaaaggaga catccacctg tgatatttgc cagtttggtg cagaatgtga 480  
 cgaagatgcc gaggatgtct ggtgtgtgtg taatattgac tgttctcaaa ccaacttcaa 540  
 tcccctctgc gcttctgatg ggaaatctta tgataatgca tgccaaatca aagaagcatc 600  
 gtgtcagaaa caggagaaaa ttgaagtcac gtctttgggt cgatgtcaag ataacacaac 660  
 tacaactact aagtctgaag atgggcatta tgcaagaaca gattatgcag agaatgctaa 720  
 caaattagaa gaaagtgcc gagaacacca cataccttgt ccggaacatt acaatggctt 780  
 ctgcatgcat gggaagtgtg agcattctat caatatgcag gagccatctt gcagggtgtga 840  
 tgctgggtat actggacaac actgtgaaaa aaaggactac agtgttctat acgttggttc 900  
 cggctctgta cgatttcagt atgtcttaac cgcagctgtg attggaacaa ttcagattgc 960  
 tgtcatctgt gtggtgggtcc tctgcatcac aaggaaatgc cccagaagca acagaattca 1020  
 cagacagaag caaaatacac ggcactacag ttcagacaat acaacaagag cgtccacgag 1080  
 gttaattctaa agggagcatg tttcacagtg gctggactac cgagagcttg gactacacaa 1140  
 tacagtatta tagacaaaag aataagacaa gagatctaca catgttgcct tgcatttgtg 1200  
 gtaatctaca ccaatgaaaa catgtactac agctatatat gattatgtat ggatatat 1260  
 gaaatagtat acattgtctt gatgtttttt ctgtaatgta aataaactat ttatatcaca 1320  
 caatawagtt ttttctttcc catgtatttg ttatatataa taaatactca gtgatgagaa 1380  
 aaaaaaaaaa aaaaaaaaaa rwmgaccc 1408

<210> 588  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<400> 588  
 Met Pro Gln Lys Gln Gln Asn Ser Gln Thr Glu Ala Lys Tyr Arg Ala  
 5 10 15  
 Leu Gln Phe Arg Gln Tyr Asn Lys Ser Val His Glu Val Asn Leu Lys  
 20 25 30  
 Gly Ala Cys Phe Thr Val Ala Gly Leu Pro Arg Ala Trp Thr Thr Gln  
 35 40 45  
 Tyr Ser Ile Ile Asp Lys Arg Ile Arg Gln Glu Ile Tyr Thr Cys Cys  
 50 55 60

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Leu Ala Phe Val Val Ile Tyr Thr Asn Glu Asn Met Tyr Tyr Ser Tyr  
 65 70 75 80

Ile

<210> 589  
 <211> 157  
 <212> PRT  
 <213> Homo sapiens

<400> 589  
 Met Thr Met Cys Leu Cys Val Ala Pro Met Gly Arg Ala Thr Arg Met  
 5 10 15

Ser Val Thr Cys Asp Arg Leu His Ala Asn Ser Arg Val Arg Tyr Leu  
 20 25 30

Trp Cys Gln Lys Asp His Val Pro Gln Met Gln Asp Gln Asp Leu Glu  
 35 40 45

Met Glu Ser Met Lys Ala Leu Glu Lys Leu Val Lys Arg Arg His Pro  
 50 55 60

Pro Val Ile Phe Ala Ser Leu Val Gln Asn Val Thr Lys Met Pro Arg  
 65 70 75 80

Met Ser Gly Val Cys Val Ile Leu Thr Val Leu Lys Pro Thr Ser Ile  
 85 90 95

Pro Ser Ala Leu Leu Met Gly Asn Leu Met Ile Met His Ala Lys Ser  
 100 105 110

Lys Lys His Arg Val Arg Asn Arg Arg Lys Leu Lys Ser Cys Leu Trp  
 115 120 125

Val Asp Val Lys Ile Thr Gln Leu Gln Leu Leu Ser Leu Lys Met Gly  
 130 135 140

Ile Met Gln Glu Gln Ile Met Gln Arg Met Leu Thr Asn  
 145 150 155

<210> 590  
 <211> 347  
 <212> PRT  
 <213> Homo sapiens

<400> 590  
 Met Leu Leu Ile Val Ala Arg Pro Val Lys Leu Ala Ala Phe Pro Thr  
 5 10 15

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Ser Leu Ser Asp Cys Gln Thr Pro Thr Gly Trp Asn Cys Ser Gly Tyr  
 20 25 30  
 Asp Asp Arg Glu Asn Asp Leu Phe Leu Cys Asp Thr Asn Thr Cys Lys  
 35 40 45  
 Phe Asp Gly Glu Cys Leu Arg Ile Gly Asp Thr Val Thr Cys Val Cys  
 50 55 60  
 Gln Phe Lys Cys Asn Asn Asp Tyr Val Pro Val Cys Gly Ser Asn Gly  
 65 70 75 80  
 Glu Ser Tyr Gln Asn Glu Cys Tyr Leu Arg Gln Ala Ala Cys Lys Gln  
 85 90 95  
 Gln Ser Glu Ile Leu Val Val Ser Glu Gly Ser Cys Ala Thr Asp Ala  
 100 105 110  
 Gly Ser Gly Ser Gly Asp Gly Val His Glu Gly Ser Gly Glu Thr Ser  
 115 120 125  
 Gln Lys Glu Thr Ser Thr Cys Asp Ile Cys Gln Phe Gly Ala Glu Cys  
 130 135 140  
 Asp Glu Asp Ala Glu Asp Val Trp Cys Val Cys Asn Ile Asp Cys Ser  
 145 150 155 160  
 Gln Thr Asn Phe Asn Pro Leu Cys Ala Ser Asp Gly Lys Ser Tyr Asp  
 165 170 175  
 Asn Ala Cys Gln Ile Lys Glu Ala Ser Cys Gln Lys Gln Glu Lys Ile  
 180 185 190  
 Glu Val Met Ser Leu Gly Arg Cys Gln Asp Asn Thr Thr Thr Thr Thr  
 195 200 205  
 Lys Ser Glu Asp Gly His Tyr Ala Arg Thr Asp Tyr Ala Glu Asn Ala  
 210 215 220  
 Asn Lys Leu Glu Glu Ser Ala Arg Glu His His Ile Pro Cys Pro Glu  
 225 230 235 240  
 His Tyr Asn Gly Phe Cys Met His Gly Lys Cys Glu His Ser Ile Asn  
 245 250 255  
 Met Gln Glu Pro Ser Cys Arg Cys Asp Ala Gly Tyr Thr Gly Gln His  
 260 265 270  
 Cys Glu Lys Lys Asp Tyr Ser Val Leu Tyr Val Val Pro Gly Pro Val  
 275 280 285  
 Arg Phe Gln Tyr Val Leu Ile Ala Ala Val Ile Gly Thr Ile Gln Ile  
 290 295 300

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Ala Val Ile Cys Val Val Val Leu Cys Ile Thr Arg Lys Cys Pro Arg  
305 310 315 320

Ser Asn Arg Ile His Arg Gln Lys Gln Asn Thr Gly His Tyr Ser Ser  
325 330 335

Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile  
340 345

<210> 591

<211> 565

<212> DNA

<213> Homo sapien

<400> 591

actaaagcaa	atgaacaagc	tgacttgcta	gtatcatctg	cattcattga	agcacaagaa	60
cttcatgcct	tgactcatgt	aaatgcaata	ggattaaaaa	ataaatttga	tatcacatgg	120
aaacagacaa	aaaatattgt	acaacattgc	acccagtgtc	agattctaca	cctggccact	180
caggaagcaa	gagttaatcc	cagaggtcta	tgtcctaata	tgttatggca	aatggatgtc	240
atgcacgtac	cttcatttgg	aaaattgtca	tttgtccatg	tgacagttga	tacttattca	300
catttcatat	gggcaacctg	ccagacagga	gaaagtactt	cccatgttaa	aagacattta	360
ttatcttggt	ttcctgtcat	gggagttcca	gaaaaagtta	aaacagacaa	tgggccaggt	420
tactgtagta	aagcatttca	aaaattctta	aatcagtggg	aaattacaca	tacaatagga	480
attctctata	attcccaagg	acaggccata	attgaaggaa	ctaatagaac	actcaaagct	540
caattgggta	aacaaaaaaa	aaaaa				565

<210> 592

<211> 188

<212> PRT

<213> Homo sapien

<400> 592

Thr	Lys	Ala	Asn	Glu	Gln	Ala	Asp	Leu	Leu	Val	Ser	Ser	Ala	Phe	Ile
1				5				10						15	
Glu	Ala	Gln	Glu	Leu	His	Ala	Leu	Thr	His	Val	Asn	Ala	Ile	Gly	Leu
			20					25					30		
Lys	Asn	Lys	Phe	Asp	Ile	Thr	Trp	Lys	Gln	Thr	Lys	Asn	Ile	Val	Gln
		35					40				45				
His	Cys	Thr	Gln	Cys	Gln	Ile	Leu	His	Leu	Ala	Thr	Gln	Glu	Ala	Arg
	50				55					60					
Val	Asn	Pro	Arg	Gly	Leu	Cys	Pro	Asn	Val	Leu	Trp	Gln	Met	Asp	Val
65					70				75					80	
Met	His	Val	Pro	Ser	Phe	Gly	Lys	Leu	Ser	Phe	Val	His	Val	Thr	Val
			85					90					95		
Asp	Thr	Tyr	Ser	His	Phe	Ile	Trp	Ala	Thr	Cys	Gln	Thr	Gly	Glu	Ser
			100				105					110			
Thr	Ser	His	Val	Lys	Arg	His	Leu	Leu	Ser	Cys	Phe	Pro	Val	Met	Gly
		115					120					125			
Val	Pro	Glu	Lys	Val	Lys	Thr	Asp	Asn	Gly	Pro	Gly	Tyr	Cys	Ser	Lys
	130					135				140					
Ala	Phe	Gln	Lys	Phe	Leu	Asn	Gln	Trp	Lys	Ile	Thr	His	Thr	Ile	Gly
145					150				155					160	

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Ile Leu Tyr Asn Ser Gln Gly Gln Ala Ile Ile Glu Gly Thr Asn Arg  
                   165                  170                  175  
 Thr Leu Lys Ala Gln Leu Val Lys Gln Lys Lys Lys  
                   180                  185

<210> 593  
 <211> 271  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(271)  
 <223> n = A,T,C or G

<400> 593  
 acttttatgtt cnagtgcana aancncctg gattgccacc ntactctcag ggctgtgant 60  
 tgtgcnccca nagcaacctg ggcacgcggg gacagggggg ccnacaattg agggagcggt 120  
 gtccctagct ggggtctata catgncnggg naagggcngc tgagtnccat nagcaaagga 180  
 nctagnatnt gcgggggtgc ggcctgggccc taccctttna agcatccntn gatccactcc 240  
 angaancng gggtagncag gtttnccaac a 271

<210> 594  
 <211> 376  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(376)  
 <223> n = A,T,C or G

<400> 594  
 ccttttggggg nggggggaac ctttaccatt gtncccccttt atttcatttg gttnggggttc 60  
 gcgcctcenn gggccaacaa agttatcgtn nttgaagaga anattttttt ggnttngncc 120  
 cgattaagcg ncaaattgtgt agcaaaangc cgtgccactt gtggcgtagc tncgtcgggt 180  
 cgattcgacg acaaggcgtn gcgcgntanc gttagtctcn aatngaccen gtggcatgag 240  
 cccacgangg nttegtgtcg tcacatggnc tctagacata acgcncnccn ttttttncag 300  
 agggggntgc cgcccttagg gaggnagggg tggggacact agccaancca nantctnacc 360  
 ccattgaaga aaaggn 376

<210> 595  
 <211> 242  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(242)  
 <223> n = A,T,C or G

<400> 595  
 agnctgctgn tcgtnccctn tatgtggctt catnntgagg acaanagtng cactgaggct 60  
 tgngnatgcc aggcaaggnc aagctggctc aaaaagcatc caccacctc tgnaanggggt 120

0099060 "62245660

atgccangag cangtgcacc agtcccaact angagncccn ggcatgntac atcttcttcc 180  
 acccctnaaa ntttgngcta caangnccat ttttcttttt ctcttaaggg ncncttggt 240  
 tc 242

<210> 596  
 <211> 535  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(535)  
 <223> n = A,T,C or G

<400> 596  
 accagttgga tactgctaaa nagatattta tgcagcctca tatgttaagt cgtatatattt 60  
 gaaagctttt taaatttttt ctttaagaag attttagatg cttatcactg agtaccagag 120  
 ggatgtaggc tgatgccctt atcaacaaag tcagggactg tggcacacaa ggattgacta 180  
 ctgcagacac ggccacaatg ctacctctag agggcctgaa tccccctgcc ctctctggtg 240  
 gggagaaggg ctggcagagc cattagcatg ggctccggcc aatcctggcc actttgacac 300  
 tcctggtgct gacccagggc cctggaggaa gggatgaggt gggcagtaga gatgctcagg 360  
 gcagtggccc ctttccatcc aacttggaac tatttcagta ttttaccacc aattcagcca 420  
 ttcccttggtg cgtctggctga acatcagccc tgctccaggt ctcagtttcc cctttgtaaa 480  
 gggaaagctc tggattcagg gagtgatgaa gaggtcatca tggctcttgag aattc 535

<210> 597  
 <211> 257  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(257)  
 <223> n = A,T,C or G

<400> 597  
 tttcnatacc caaaantacc ccatattang accanacatt tgtctnggaa aaattaccat 60  
 tntntaant ttggggccacc tgagannaaa tgggtgtaat ncatgataag atggancagn 120  
 attnctctta agatnngatn agaccccggt tttcacggaa catatccaag nacccaatag 180  
 gnaacaagcc acgggnggag tcacaaacat atattcttta ctctcataat ccgtnnacaa 240  
 naactnttgn acttgac 257

<210> 598  
 <211> 222  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(222)  
 <223> n = A,T,C or G

<400> 598  
 nntggntacc gtcnaaactt nnttggttac ccgagctcgg atccactagt ccagtgtggt 60

```
<210> 599
<211> 238
<212> DNA
<213> Homo sapien
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```
<220>
<221> misc_feature
<222> (1)...(238)
<223> n = A,T,C or G
```

```
<210> 600
<211> 232
<212> DNA
<213> Homo sapien
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```
<220>  
<221> misc_feature  
<222> (1) ... (232)  
<223> n = A,T,C or G
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```
<210> 601
<211> 547
<212> DNA
<213> Homo sapien
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```
<220>  
<221> misc_feature  
<222> (1)...(547)  
<223> n = A,T,C or G
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<400>	601						
cattgtgttg	gggaaaaaat	gatttgtata	agcagtgggg	ctatttgcga	ttgctttttt		60
tttttcttaa	atatcaccta	ttaggttgaa	aacctgaaat	tgagcttttc	tgtagaaatg		120
gcggaagaca	aactaacatt	tttaaagcgc	tctcatttag	ctctgatgag	tactacaccc		180
ctnatatttc	tctgatacta	aaataatttt	cctagtgtag	tctaaacttt	tttcaaaaaga		240
catgtaatcc	gcggagttag	tactcaaaa	cgagtgcac	tnngaaagtat	cgcagccgtt		300
nctggatnaa	attcccagct	tgctngcttg	ctnagccggg	gggcygtnaa	aaaaacatct		360
qcagcccnng	ggnaaaaacc	ttcgcattgt	tcttacgtgt	ttacgttatt	ttatttccct		420

nnagcaaggc nggganttgg ggactcgaaa tggtagagtt gggctgggga tcgcccttgt 480  
 tacataaaaag ncgtccagaa gagggacggg tacaggcnng ganctccaaa ggtcagtcgc 540  
 tgccatt 547

<210> 602  
 <211> 826  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(826)  
 <223> n = A,T,C or G

<400> 602  
 cgggggggnt tacgtctctc tggacgcttt tattgtacca gggcgatccc agcccaactg 60  
 taccattcga gtccctactc ctgccttgct ctagggaaat aaaataacgt aaacacgtaa 120  
 gaacaatgcg aaagcgTTTT cttccctagg ctgcagattg tcttcttcac cgccctgct 180  
 tagctagcta gctagctggg aatttaatcc agaaacggct tgcgatacct cctagatgca 240  
 ctcgTTTTga gttacaaact ccgcggatta catgtctttt taaaaaagtt tagactacac 300  
 tagggaaaat tatttttagta tcagaagaat atcagggggg gtagtactca tcagagctna 360  
 atgagagcgc tttaaaaatg ttagtttgct ttccgccatt tctacagaaa gctgcaatTT 420  
 caggTTTTca ncctaataagg tgatatntaa gaaaaaaaaa acaatcgcan atagcccaact 480  
 gctttttacaa atcatttttTc tcttctaggT atagcctgtc aggtggccta atgtattttt 540  
 gacatctcta ggaattttta tagaccagaa atgggtgccg gagatatgcc tgcactaatc 600  
 ttaagtgggg atttatgtat ttctcaanca agtgattaaa gcaaaactag gcacgaatga 660  
 aatcaagatc tttaggccag aaatcatgaa nanttttana attattttan gaatctgtgg 720  
 cttctcttct taaaatngaa aaaaaaattg tttaaaccca naagggtctga ataccaagc 780  
 nccctgaacn anagaacaan gccggagcac cccctcccaa atcccc 826

<210> 603  
 <211> 817  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(817)  
 <223> n = A,T,C or G

<400> 603  
 nnangacttt tgtggtntta tacaattntt ttttctattt ctatgaagag aaagccacag 60  
 agtcctaaaa taattctaaa actcatcatg actttcttgc ctaaaagatc ttgatttcaa 120  
 tcgtgcctag ttttgcttta atcacttgct tgagaaatac ataaatcccc acttaagatt 180  
 agtgcaggca tatctctggc acccatttct ggttctatta aaattcctag agatgtcaaa 240  
 aattacatta ggccacctga caggctatac ctagaagaga aaaaatgatt tgtaaaagca 300  
 gtggggctat ttgcgattgc tttttttttt tottaaatat cacctattag gttgaaaacc 360  
 tgaaattgca gctttctgta gaaatggcgg aagacaaact aacattttta aagcgtcttc 420  
 atttagctct gatgagtact acaccctga tattcttctg atactaaaat aattttccta 480  
 gtgtagtcta aactttttta aaaagacatg taatccgcgg agtttgtaac tcaaaacgag 540  
 tgcacttagg aggtatcgca agcgttttct ggattaaatt ccagctagc ttgcttgctt 600  
 agcaggggag ggnaaanaag acatctgcag cctagggaag aaaacctttc gcattgttct 660  
 tacgtgttta cgttatttta tttcctanaa caaggcngaa ttgggactcg aatggttcag 720  
 ttgggggtggg ggatcccctg gtncataaaa ngtcanaaag anggtacagg cggaacncca 780

agggtcgtcc tgcatttana ctcggaattt tgggtgcc

817

<210> 604  
<211> 694  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(694)  
<223> n = A,T,C or G

<400> 604  
cttttcaaat cattttttnct cttctaggta tancctgtca ggtggcctaa tgtaattttt 60  
gacatctcta ngaatttttaa tagaaccaga aatgggtgcc agagatatgc ctgcactaat 120  
cttaagtggg gatattatgta tttctcaagc aagtgattaa agcaaaaacta ggcacgattg 180  
aaatcaagat cttttaggca anaaagtcac gatgagtttt agaattattt taggactctg 240  
tggctttctc ttcatagaaa tagaaaaaaa aattgtataa aaccacaaaa ggtcctgaat 300  
agccaaagca acactganca aaaagaacan agcaggggaag caacacacta ccngaattca 360  
aattatacta ccagggtgta gtaaccacaaa cagcattcta ttggcataaa atagacacca 420  
agaccaatgg ancagaataa agaacccccac aaataaatcc atatatntac cgccanctga 480  
ttatcaataa cnaacaccaa gaacatatnt taagggaant nctattcaat aantagtgtc 540  
ggnaaaaaact gggaaatcca tatgcagaaa naatgaaact agaccctat ccctcaccat 600  
acgcaaannt caacttcgga atgggattac aaaacttaag acattccaac ccaagaaact 660  
atnaaancta ctattaagaa aacagatcnc nccc 694

<210> 605  
<211> 678  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(678)  
<223> n = A,T,C or G

<400> 605  
taaaaaatcta gactacacta ggaaattatt ttantatcag aagaatatca ggggtgtagt 60  
actcatcana gctaaatgag agcgctttta aaatgttagt ttgtcttccg ccatttctac 120  
agaaagctgc aatttcaggt tttcaacctat atagggtgata ttttaagaaa aaaaaaagca 180  
atcgcaaata gccccactgc ttttacaat cattttttct cttctaggta tagcctgtca 240  
ggtggcctaa tgtaattttt gacatctcta ggaattttta tagaaccaga aatgggtgcc 300  
agagatatgc ctgcactaat cttaagtggg gatattatgta tttctcaagc aagtgattaa 360  
agcaaaaacta ggcacgattg aaatcaanat cttttaggca agaaagtcac gatgagtttt 420  
anaattattt taggactctg tggctttctc ttcatagaaa tagaaaaaaa aaattgtata 480  
aaaaccacaa aaggtcctga atagcccaaa gcaacactga acaaaaangaa caaagcagga 540  
agcaacacac taccggaatt caattatact accaaggtgt antaaccaaa acagcattct 600  
attgggcata aaatagacca aagaccagtg ggaaacagaa taaagaancc caaaataaat 660  
cctatattta cngccnc 678

<210> 606  
<211> 263  
<212> DNA  
<213> Homo sapien

009060"6225960

<220>  
 <221> misc\_feature  
 <222> (1)...(263)  
 <223> n = A,T,C or G

<400> 606  
 gtgggggtcng cancagccaa ctcagcttcc tttcgggctt tgtagcaga cggatcatcc 60  
 totagtccac tgtgntcaaa ttccattgtg tgggggccnc tcgcctcggc canagatctg 120  
 agtgancana cntgtcccca ctgaggtgcc ccacagcngn ttgtnttcag cangggctna 180  
 caactcgacc ggcagcgan ggctggcaga antgngcgcc tnnctcattc ctacgcngtn 240  
 ngccgcagga aggangacag gcc 263

<210> 607  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 607  
 ccatgtgggt cccggttggtc tt 22

<210> 608  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 608  
 gataggggtg ctcaggggtt gg 22

<210> 609  
 <211> 40  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 609  
 gctggacagg gggcaaaagc tggggcagtg aaccatgtgc 40

<210> 610  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

0099050"6226950

<400> 610  
 ccttgtccag atagcccagt agctgac 27

<210> 611  
 <211> 46  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 611  
 gatagagaaa accgtccagg ccagtattgt gggaggctgg gagtgc 46

<210> 612  
 <211> 40  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 612  
 gcacatggtt cactgcccc gcttttgccc cctgtccagc 40

<210> 613  
 <211> 38  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 613  
 gccgctcgag ttagaattcg gggttggcca cgatggtg 38

<210> 614  
 <211> 53  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 614  
 cgcggggcat atgcatcacc atcaccatca catcataaac ggcgaggact gca 53

<210> 615  
 <211> 46  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

009060" 6225960

<400> 615  
gcactcccag cctcccacaa tactggcctg gacggttttc tctatc 46

<210> 616  
<211> 1350  
<212> DNA  
<213> Homo sapien

<400> 616  
atgcatcacc atcaccatca catcataaac ggcgaggact gcagcccgca ctgcgagccc 60  
tggcaggcgg cactggatcat ggaaaacgaa ttgttctgct cgggcgtcct ggtgcatccg 120  
cagtgggtgc tgtcagccgc acactgtttc cagaactcct acaccatcgg gctgggcctg 180  
cacagtcttg aggccgacca agagccaggg agccagatgg tggaggccag cctctccgta 240  
cggcaccag agtacaacag acccttgctc gctaacgacc tcatgctcat caagttggac 300  
gaatccgtgt ccgagtctga caccatccgg agcatcagca ttgcttcgca gtgccctacc 360  
gcggggaact cttgcctcgt ttctggctgg ggtctgctgg cgaacggcag aatgcctacc 420  
gtgctgcagt gcgtgaacgt gtcgggtggtg tctgaggagg tctgcagtaa gctctatgac 480  
ccgctgtacc accccagcat gttctgcgcc ggcggagggc aagaccagaa ggactcctgc 540  
aacgggtgact ctggggggcc cctgatctgc aacgggtact tgcagggcct tgtgtctttc 600  
ggaaaagccc cgtgtggcca agttggcgtg ccagggtgtct acaccaacct ctgcaaattc 660  
actgagtgga tagagaaaac cgtccaggcc agtattgtgg gaggctggga gtgcgagaag 720  
cattcccaac cctggcagggt gcttgtggcc tctcgtggca gggcagtctg cggcgggtgtt 780  
ctggtgcacc ccagtgagggt cctcacagct gccactgca tcaggaacaa aagcgtgatc 840  
ttgctgggtc ggcacagcct gtttcatcct gaagacacag gccaggtatt tcaggtcagc 900  
cacagcttcc cacaccgct ctacgatatg agcctcctga agaatcgatt cctcaggcca 960  
ggtgatgact ccagccacga cctcatgctg ctccgcctgt cagagcctgc cgagctcacg 1020  
gatgctgtga aggtcatgga cctgccacc caggagccag cactggggac cacctgctac 1080  
gcctcagggt ggggcagcat tgaaccagag gagttcttga ccccaaagaa acttcagtgt 1140  
gtggacctcc atgttatctc caatgacgtg tgtgcgcaag ttcacctca gaaggtgacc 1200  
aagttcatgc tgtgtgctgg acgctggaca gggggcaaaa gctggggcag tgaaccatgt 1260  
gccctgcccg aaaggccttc cctgtacacc aaggtggtgc attaccggaa gtggatcaag 1320  
gacaccatcg tggccaacct cgaattctaa 1350

<210> 617  
<211> 449  
<212> PRT  
<213> Homo sapien

<400> 617  
Met His His His His His Ile Ile Asn Gly Glu Asp Cys Ser Pro  
1 5 10 15  
His Ser Gln Pro Trp Gln Ala Ala Leu Val Met Glu Asn Glu Leu Phe  
20 25 30  
Cys Ser Gly Val Leu Val His Pro Gln Trp Val Leu Ser Ala Ala His  
35 40 45  
Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly Leu His Ser Leu Glu  
50 55 60  
Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu Ala Ser Leu Ser Val  
65 70 75 80  
Arg His Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu  
85 90 95  
Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile  
100 105 110



<400> 618  
 ctgtgctgag aacccaaaagc tatgancact gctttttccaa atgtccataa naccaacatt 60  
 tttatcacta ccaccatcac ctgggagctc nttagaaaagc tagtctcccg ggcaccaccc 120  
 tggcctactg aacctaattgt gcattttaaca agattnacgt ngaaatctgc aaagcacagg 180  
 ggcngataac agtaccacct gntctgggtc ctanccccc gacccttaca gtctaactgg 240  
 gacacaaggg cttnaaatca aattgcctat cattaagata tacaanganc ntgagaaact 300  
 gctncactta tntattaagg ngctctaaga cttagaaaacn aaangcantg ctgagangat 360  
 tcaaatatga ngggggnac tttnc 385

<210> 619  
 <211> 869  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(869)  
 <223> n = A,T,C or G

<400> 619  
 gatatcccgga gaattcgcgga ccgcgctcgac ctctacttgt ttagacataa atgcagtcta 60  
 gcattaaaga tccttttaaaa aaatgttttc ccaatgggta aaagacaagc tcaaataaat 120  
 gaactctcat acatatgccca aaattgatga gtagataaat atttcagtag gtagttacta 180  
 gctttctgtg tatgagtaaa catatgggag aaatttaaaa cactaaagta gactcaatga 240  
 aagcatagta tcctatgtat tcgtttttca gaaatgtcta atgaaggag gaaacaatga 300  
 atgaatgccc ttattcctct tagagtgtcg ggacatgggt ttgcctgaaa acttcatgtg 360  
 aattttatat tttgctacac attacaccca tcttagactt atacgtataa gacataaggc 420  
 atatcttatg tcttacatgt ataataatct aagcagaaca aaaaataacg aaatattttc 480  
 ttccccaat ttttgagaca gatggatttt ccggaaagat gtgttttagct tttaatcctg 540  
 tggttttgtg taccacctgg cacactagag tgttgctcta attcagttag ttgtaactct 600  
 ggggtgaacag tggaaatact agggtagatt ttaaaaatgc taatgctcgg gcctcgctga 660  
 agaccaaatt aattggaatc tctgngggng gnattgatct ttttataatc tttctanang 720  
 attctaattg gcttccaggga atgaaaacn ctgntggagc tnggaacctt ccttttagttt 780  
 ggagaaaccc cgatgagggt ntnttaggcn ccgcctnttt ttggcctggg cttccccctt 840  
 tatntntttt tgggaangnc cnaattttt 869

<210> 620  
 <211> 339  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(339)  
 <223> n = A,T,C or G

<400> 620  
 gngcgggcct cnccggtgctt gctctcgctg ccgacgctct ttttccacca gctgtaggan 60  
 aagcccgaag accactgggc ccccgggtag cccaagtacc actgggtctc ctgggtcctg 120  
 acgctncggg tcttcctcgt ggcgtagact gccagcttcg gagaccctc agccctccc 180  
 cgcttttctc caccacagga ggccatcagt agcgagctac tgcctcggcc acaacctccc 240  
 agcangatag cccgcgggtt ccaatctcgc aaaggaggac cgccnagccc gaaatgccna 300  
 gccagcnat cactgccacg ccgagccnag cgctcgtgc 339

<210> 621  
 <211> 267  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(267)  
 <223> n = A,T,C or G

<400> 621	
ggggngcatg gtcccnggta gccaaagtaca tggctcctcct ggctcctgac gctacggggtc	60
ttcctcgtgg cgtagactgc cagcttcgga gacccctcag cccctccccg cttttctcca	120
ccccaggagg ccatcagtag cgagctactg cctcggccac aacctcccag caggatngcc	180
cgcggtttcc aatctgcgaa aggaggaccg ccnagccaga aatgccnagc cnagcgatca	240
ctgccacgcc naggcnagcg ctcgtgc	267

<210> 622  
 <211> 847  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(847)  
 <223> n = A,T,C or G

<400> 622	
cttangntgt cgactgacgt catgcatgan ttaaagcaga ggtttggtga aatttatgaa	60
aaatacaaaa ttccggcttg tcctgaggaa gagccactac ttgataactc tacaagagga	120
acagatgtga aggatatcc ctttaatttg acaaataaca tacctgggtg tgaggaagaa	180
gatgcatctg aaatatctgt ctcaagtggta ttcgagacat ttcctgaaca aaaagaaccc	240
agtctcaaaa atatcatcca tccatactat catccgtact ctgggtccca ggaacatgtt	300
tgccagtcac cttctaagct tcattttacat gaaaataaat tagactgcga caatgataac	360
aaactaggca ttggacatat ttttagtaca gataacaact ttcataatga tgcaagcact	420
aagaaagcaa ggaacccaga agtggttacg gttgaaatga aagaagacca agagtttgat	480
ttgcaaatga caaaaaatat gaacccaaat agtgacagtg gcagtacaaa taactataaa	540
agcctgaaac ctaaattaga aaatctgagt tctttaccac cagattctga cagaacatca	600
ggaagtatat ctacatgaag aattacagca agacatgcc aagttttaag aatgangtca	660
acacattaga aanaagantt ctgggctttg aagaaagaaa atgttccact tcataaagaa	720
ggttgaaaga agaatgggag agcccngaan tttttgccn gaaattttcg ggaaccctac	780
tggatgggtc nactggttg ccatgaatga ataatggact aatcnnccaa ttcctnggga	840
agggaat	847

<210> 623  
 <211> 681  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(681)  
 <223> n = A,T,C or G

005500 " 6225960

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<400> 623
aaaactgtac tcgcgcgctg catgtcgaca ctagtggatc caaagaatcg gcacgagcga      60
aaangctcan gcagcccggc tggccgcgcg cgctcctccc cccaggaaag ccaangtgga      120
ngctgatgtg gctgcangag ctcgtttcac agccccctcan gtgganctgg ttgggcccgcg      180
gctgccangg gcggaagtgg gtgtccccan gtctcagccc caaggctgcc cctcacaaag      240
cactggtggt ttgcctccac tgccaccttg ggctccgaac ccgctcccct gctgtggang      300
cccaccgtgg gaatccaggt ccccaggtgg actgectgcc ttgccctcac tgcccactct      360
gcccacactt ccctgcctag anaccgggaa ggggctgtgt cggtantggt gcccacctgg      420
atgtggcagc accgactgtg ggggtggacc tggccttgcc ggtgcaaaa gtggggggccc      480
ngggaaaagc acctgaagtg gcctgaaaa atccccctt aattttnccc caatttgggg      540
ctcnaacaaa aggaaattgc tgaagccaan ggtaccaagg tcacccttaa ggccaggggtg      600
aaaaggtccc aaaattccaa tnccaccnt ttgggcttnc ctcttggaac cccggccccc      660
tctcntgaan ttttaaaaaa n                                           681

```

```

<210> 624
<211> 661
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(661)
<223> n = A,T,C or G

```

```

<400> 624
attggtctta ctgtaccacc ggggtggaaat cgatggccgc ggcgctctaaa tatccgatttt      60
tttttttttt tcctcttctg actgtccatg gacaaatgaa actaacttaa tctaactaaa      120
aaacacaact atattttgaa gattttctat ctgcactcaa ggacactttc cacnccggttg      180
ttgttacctt ttgggtcttg ctctgaacat gaaattnatc tcaagggatt ngattttctgg      240
acctcctatt cctgctatgg gtttgatatt tcttgggctc cagggccact gttgcattgg      300
gntgacagnt acctcctagc ccatancttc ctatcttggg aaacaaacct aacaactacg      360
tgtaccttcc atagatctct gattgagtct cagtatncgc ttgctcatgg gcgattcact      420
tgaatccgtn attggtgcca acaatcctga ctcatgggnn aatggatcct atcacgttcc      480
cctgattngc aacccctgta tacatanatc taatcgcata gaatctagcn tnggntatgc      540
gcggctacgc tatcagggnt tgntaactat ngcatggcta cgaanccctga tcatgatcna      600
gggtcatgga ctcttatcag ggggggttggg ccngcttctt ttttcnnacc ttggtaaaac      660
c                                           661

```

```

<210> 625
<211> 181
<212> DNA
<213> Homo sapien

```

```

<400> 625
gcaacaatca gatcatgtta aagtaaactc ccattgccct ggatcacttc aggatttaaat      60
tgtccaagga gagcagggtt ctctgtgaa aaaaagggtg ggaaatgttt gagagtaaaa      120
aatacaaaat tcaaccgggtc gaaaatacac cactccattc agtgctctac ccccataagc      180
c                                           181

```

```

<210> 626
<211> 181
<212> DNA
<213> Homo sapien

```



ggagaggctt aataactaag acacttggag cctaggccaa cgcgaa

646

<210> 629  
<211> 617  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(617)  
<223> n = A,T,C or G

<400> 629  
gccccncccc cccctcctngg gcttatnngg acagaccac gtagtactct aaatcttctc 60  
ctacgcgga caacggaccc tataccaatt cgaatcttgg acactccgac cgccggattc 120  
tcttccccctt tcggcttccc ctttctgtcg gtacccctcc ctatgcgtct cctacacctt 180  
cgtaccgtcg atatatagtc gccgcggact agcctattta ggtgtcctag actcgttatt 240  
gatccactca ttagtctagt actatgcgtc acgtatctta gttgcctaag agggagatta 300  
aatcctccac aagttccgac gaattcctgg actctcgtac tagcaaacctt tcttatgagg 360  
cttctcttga tatcttctgg atgtttctcg tgtcccggtc ctccgctact actagagctc 420  
cttgccctat ctctagaagt agaggactct cgggttcgtt ctccaaatct agcgctagag 480  
ctatcgctac ccgctcgatt cccccagcgg aatcttgaaa cctgaggtag tacacaaacc 540  
ctccnctatc tccctcgggt gctccttctt ctcatcccc cttcccgctt tctcgggaan 600  
gaatctactt tancttc 617

<210> 630  
<211> 644  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(644)  
<223> n = A,T,C or G

<400> 630  
cnntcggcnt gggttttntt ctgagnnncc ccccccccc cccccccaaa cttacaccca 60  
ccaaacactt tccgccccct acctaggaga cattagaagg gtttaggctt cggcgtatag 120  
taaagtcctc tacctcggaa gtagagaatt cggtatatta attcagggtt agaggctcgc 180  
tcgttagatt tatagtttag gtttagaata ggaaaccttc gatcttctt agaagggtaa 240  
taagtgaggc cctaaatccg tctaaccaag gcgttaaggc cgtacctaa acctagtctt 300  
atcttctatc aggcgcacca atataggtag gttctacttt cgtataggcc ttaaggaata 360  
gttcggtagt tategaaggc actcctctct aggctaggct tttctcagtc ttagtactcc 420  
gggaccgtcg tcgcanaaat atcgatggac ggtaggtatc tccgcgttac gcgtcgggct 480  
agggatatag agcgaattat cggcgagagg cggtcgctan gaatcggtat caatatgntg 540  
ttctttaccc tacggatatc ggcagaaaac ataaaacctt ctnaccangg ataagggatt 600  
atcggacccc taaaataaca gtaacattta gantactagt accc 644

<210> 631  
<211> 526  
<212> DNA  
<213> Homo sapien

<220>

<400>	633								
tccttcgggt	tgggttttt	tetgaccccc	ccccccccc	ccccctcgga	aggcctctag			60	
gtccccacc	gtctctotaa	tcctcaggaa	cgatccacc	caaccaactt	actaatgtcc			120	
tacagtaa	acccgagaat	ataaacacc	acctaggcct	ccaattctac	cagggaagca			180	
agaagccga	gtctagcgta	tacgaaccc	gagatataga	cggagatact	taggtttatt			240	
ctctcggaat	aqgaaagacg	actggggagg	gaatataggc	tagcgcgggg	ataggggcta			300	

tggcggatat	gggggcgggt	cgctctctta	ttcttctata	ccacgtcaat	aggaatgtag	360
atatacctag	atgttcccgt	agaaagagac	gttagaggtc	tccgaagcta	taaaggagag	420
gcgcgaagaa	acttcgtact	ctagctttat	ataggtagtc	gctctagtcc	cataagcgac	480
gagagatcta	ctagatttcg	gtatcgccgt	cgtatgtatt	cgaaatagtc	ttcttccccct	540
tttcgatctc	ctctctatac	tacatggnga	ttatagtcnt	aagatagtc	ggatattagg	600
atattagtta	tatgacgttc	gacgggacgg				630

<210> 634  
 <211> 647  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(647)  
 <223> n = A,T,C or G

<400> 634						
ccntcggcctt	gggtttttttt	ctgacccccc	ccccccccc	cctccactaa	gancttaacc	60
caaccctata	gtttactcgt	ataggggaat	cgaggagaaa	taggaacgaa	gagcgggtga	120
taaagagaaa	gtactttcct	ttatatgtta	agagcttagc	gtaatgactt	tcgttatatg	180
gctagttagt	tttatccggc	gttatagggc	ttagtctcgg	ttatctcggg	tctaattccc	240
ttagtatgct	cgggagttta	acgaggtcac	gggatagcgc	gtaccctttc	taaggttctt	300
ggaaagctat	tcgttattta	tcgcgattct	cgaggtcgaa	aggatcaagg	atcttccctt	360
ttactaccct	agtcgggtta	gcggtcggtc	aaaactagt	tagtaccttt	acctcctcga	420
aagttatagt	cgaaacaacg	tattagtcga	aattatagcg	gatagatcga	gacggttctt	480
tctcgggttc	tcagccggta	atccctctat	ttgggggtct	tctccctctt	cccctttgtc	540
ttccgcctta	gcttccaagg	ttcctcggaa	gcgaggggtt	ctacttaagt	cgntagcggt	600
ccttataaac	cncctacagg	cagacccctt	tgtaaacggc	tcgggggt		647

<210> 635  
 <211> 645  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(645)  
 <223> n = A,T,C or G

<400> 635						
ccttcggcctt	gggtttttttt	ctgagccccc	ccccccccc	cccgaactc	gccttacccct	60
agatacccaa	agaatagttc	cactcaactt	cgtctaagta	aaactctaga	acttccaaac	120
ataaaagact	tcgcgcgggt	agctacacag	cctacgggaa	tctcacgaat	cccgattcaa	180
gtcccactct	cgaccacacc	cgggtatcgt	cgttttccca	taccaatgtc	gaaaaataaa	240
ataaaatcca	gtcaagcccc	acggtaagcg	ggggtagggc	taggcgaaga	ggcaggaacc	300
gttcgaggcc	gggggctttc	aaaatacaaa	acaactactt	aaagtttacc	ccttctaaag	360
tcgggggcaa	cgggttaaagc	acgcctctaa	agtactactc	gtttcgagaa	ggggtagtca	420
tctcccgcat	agagactctc	gcgtatatca	actcgcacgc	cttctagcat	tccgacggtc	480
gcccgcggct	acatatcttg	cggattagct	ccgagggact	ataggggttaa	ttagtctagt	540
aaattctctt	agaggatagt	cggggtcgta	gttaggcagt	acgaggggac	atggnctgcg	600
tcgtgctcta	ccttgacagc	atactcttat	aaacatcttt	ttcct		645

<210> 636

<211> 643  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(643)  
 <223> n = A,T,C or G

<400> 636  
 ccttcggctt ggggtttttt ctgaccccc ccccccccc cctagcggaa aacaatcccc 60  
 accgagattt tattaatcgt aaaactcgcc ttcggtacca agtcttcctc cttcccgtaa 120  
 cctggctccc tctagnggc tttacgaacg tccctcctct tcttacggct cggaagtggg 180  
 tacgggttaa tccggaggng gggctaacga atccaaggct aactcctctt anagtttggt 240  
 gtccncncgt ttagtaagga tccgtggagg gcgagtattt gncccccggc ctttatnta 300  
 tagttcccta gtacgataaa gntaccggct atcctattac agcggataaa agttatttan 360  
 agggccgacg tncccgctag acaggctaca gctagnngag gtaccgcctc cgactantcc 420  
 gttgnttccg acaaggnggt ttcgggttaac tccacaaact cctccgccga ctctanggtg 480  
 gggacggcag ttccncngtt tagtgtgcgt tatagagaag ggcatttgag ttggacgtta 540  
 cnttttaaca taggttattc cgttttaggt cttgcggggc cgtgggggta gtncncggc 600  
 gcgttnntat cggcgatttt ccgcagtttc cgtttccggn tnt 643

<210> 637  
 <211> 631  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(631)  
 <223> n = A,T,C or G

<400> 637  
 ggggtntctc atttggtggg actttttggg tcgtaggaac cggatatgnag gagtaggagt 60  
 cgctgggaag actagaagtt agctacggac gattagtgtg attccactct taataacgag 120  
 taatcgttta cgtcggggtg gtgtttcggg gttttggaga gtaagcgtag ttgtggagtt 180  
 tcgcatatag gtccccttac ttccggcgatc tcgtcttctg tcggttaggt tattattggt 240  
 catccttcgc attagtagta gggttgggtc gataaatcga tagctattct ttagaattcg 300  
 tagtcggaga attcgtgtac gaagtccttt aagttcttta agttcgcgag taagacgtgt 360  
 acggttattt tgtcgtcgac gtaggtgtcg ttacggggag ttctgtttta ggggtttacg 420  
 tagaacgtta ttaagcacgg taatacgata gaggattacg cgacgtattc gtcttagaac 480  
 gtcgattttt cgaaggcgca tttgttatcg aaggggagtc cttggagaat cgagatattc 540  
 caagaatatt acggagatta cagatcggaa ggctcccag atcggacgta ttaccggtct 600  
 cgcccgaac gagtaggtat cntccggata a 631

<210> 638  
 <211> 606  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(606)  
 <223> n = A,T,C or G

009060 "6225960

```
<210> 639
<211> 592
<212> DNA
<213> Homo sapien
```

<400> 639						
tccntcggct	tgggtttttt	tctgagcccc	ccccccccc	cccccgga	cgagaaaaca	60
atcccaccct	accgcgggga	gtgggttgna	cgcttagttc	tagaatcctc	ggaatcgctc	120
tccg'gcgttg	gtagtccgg	cgattccgag	tatgccgaag	tgtatcgctc	cgtctagagg	180
ttggtatctg	tttatcgca	tgacgctatt	gactcggatg	ctttcgaaagt	agggggatag	240
gcgcatagat	acgcctccgc	ggtgtcctct	gaagtggcgc	catccgtgga	cgcagcgtag	300
acagctctgg	tggacgataa	cggcttctcg	tactcctact	ccggctatta	tgttagagag	360
gacttgtttc	tgaacggata	taccattagc	gaaggggtac	cctccgctaa	cgcagggcgtt	420
tctaacagttc	cttcgcggcg	ctccgaattt	agattgacgc	ctccgcagca	ttgtgggatc	480
ctctccggtt	agccctcttt	ataggatttc	tcctccgcc	cgaagangg	ctggtcgtcc	540
ccggcangta	tgtctagctc	gaacgccttg	ttactccttt	gttttcgaaa	na	592

```
<220>
<221> misc_feature
<222> (1)...(637)
<223> n = A,T,C or G
```

[illegible]

tcgttagatc	ttagaaacta	tactcaagtt	tcagtcggaa	gaaaggaagt	agagagaagg	480
gtaaacgatt	acctccggtt	ctagcccttt	ttactcgcac	aacgggagaa	cggggtccgg	540
ctctcagata	cgctcgcga	gacgtcgcga	ttcaacttta	acctccgcta	gggcatccgt	600
atacggttaa	cgcggtaaaa	gcgacctcgg	aaacctc			637

<210> 641  
 <211> 649  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(649)  
 <223> n = A,T,C or G

<400> 641						
ctntgtggcg	gtggttgtct	cagtttgggt	ggatttttgg	gtcgtaggna	acctggtatg	60
aggtctagtt	tcttcaacga	ttcttgggtc	agttacgcga	ccctatcctt	atcttacaat	120
gtcttctaca	tcaggttcat	caattaatat	atcaattaca	cattaacgac	ggtgtgacgc	180
aatatgagaa	agtatacatt	aaggttatta	tatattattc	gcttaaaaag	gttcctgaca	240
tgggacaact	tcaccaccca	ttctagaagc	ccccctcct	gtaggacccc	ctcgagttcc	300
ccattatctt	agttcagttt	tcatttttta	accaggaggg	tatcggtttt	taataggtac	360
tattttgtca	aacttttcag	aagctttatc	ttcaaata	cttgacccat	ctgtactagg	420
agcactaact	attcgagtct	attacagctc	aacagaaaat	aattgaaatt	aaacaacctc	480
agtatcgctc	accataaccc	catcgggctc	tcaccccat	tcttcataag	ttctagagca	540
tcctgagctc	tttcttatta	cccttgatgg	tactcatggc	ctaatacccc	ccgcagttat	600
aggtccttat	ggatcctatg	ctaccaccgg	tctaattcct	tctatcacn		649

<210> 642  
 <211> 645  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(645)  
 <223> n = A,T,C or G

<400> 642						
tccttcgggt	tgggtttttt	ttcgtcgcgg	gttactatta	tcgattgtta	cttgtaaagg	60
cgatactccc	accgctcacg	atattagacc	tgctcctcta	gaagcgaacg	gcgataggtc	120
tactcggccg	gcgaagacgg	cgaacgggta	ggaggagcca	tatgcaaccc	taacggagat	180
tataagtact	gggaaaaata	ctagtattaa	ggtagcgggt	taagataggt	ggagagacac	240
tattcacgag	cataagcact	tagaaggtct	tctcgaggag	aggtaggcta	cggactacgt	300
tccttcttcc	tctagcctcg	agagggagta	tagatgattc	gcaaaaagaga	atccctccta	360
tacgtcggca	taactagacg	acgcgtcgtc	gggaaatctc	gccaaacccta	ttgcgcacctc	420
caaaaggaag	attgtcgttt	catagaacgc	taatactccg	ggtcttcccg	aatcatagcc	480
gcatatcggt	aagaagacgg	taaaatcgcg	cgattctaac	aagattctgt	agacttaagg	540
ctaagcacta	gaagcgatct	cgattccgga	tcttaagatc	atactaatag	ttcggtcaca	600
ccagacgacg	attagccact	agaagcccta	ctccgtngaa	accgg		645

<210> 643  
 <211> 586  
 <212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(586)

<223> n = A,T,C or G

<400> 643

```

ctttgtggcg gcggtgtctc atttgggtgg atttttgggt cgtaggaacc tggatatgcag      60
ggtccgcccc gaattaaaag cgggatcccc aaaacgnngn ttcgcaagaa gagaagaatc      120
atagcgatag anctttcata gtacaaaggt aactaagagg aaaataatgc agattcagaa      180
ctagttgcca aattagaact cgattaggcc aaggatccga gcctggcgct atcacttcgg      240
gacttaagct acggtagagc agtcggtcct gaagcatagc tcccgtagga cgtaggaaac      300
tagtccggca cggaggacat actctcgagt ctcggaacgt ctatttagaa tataaacgca      360
ttaacctcag aaggcgccga cgcggttact ctctagggaa ctatttcatt ccttccggag      420
ctccccattt tttccaacac atataccggc aaaggaaaat cttntgtcct cggctctaaag      480
agagggaaaa aaaacgatat ctaggttcgg gtttatccat ttaaaaaanat ngacgcgact      540
actccctttc aaaggggagt tccccctagg nagagttcaa cngaag                    586

```

<210> 644

<211> 646

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(646)

<223> n = A,T,C or G

<400> 644

```

ctttgtggcg gtggttgtct catttgggtg gcatttttgg gtcgtaggaa cctggatatng      60
agggctatnt gacttgtttc tcaaatecca tggatatgggt ggtggcgtgc ggggtggcgg      120
tcggttcggc ggggggtggg gtcgtcctcc aaaggagttg ctagagggct tttagtggtt      180
ttagggcggg aaggggttag agcggagaga cgtcgtcgtg gaagcttctg gcggagcgcg      240
agaaggtagt tagcgccggt tcggaagatt ctcaagaattc gagaagaggt agtggggcgcg      300
ggagagagag tttctaagtc taaacgtaga ggtcgtccta gtcgggccgg gagtagcttt      360
taagctagag gtcgaggtcc tcgtttaggc tccgggctct tcgggcagta tcctctttct      420
cgaggaacgg agcgaccgac gtcgtagccg gaccggtcta tccgtacgtt tagagatacg      480
ctcacctcca cgggcgtata tgcccgtata cgtataaacg cgtaatatat tcgcgcgtaa      540
aacacgtata cactatatac acgcatcgta cggaccgtat agcgttatat gcgcgcgcat      600
attaatttac acttatatac gcgttaacac gatatatcac acnccg                    646

```

<210> 645

<211> 654

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(654)

<223> n = A,T,C or G

<400> 645

```

nccntcggct tgggtttttt tctgaccccc ccccccccc cccccggtcg acaacgtgcc      60

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```

cacggttgcc atcccagcat agctgggttcg ttctgtttta ttcttagtag tttagttcgc 120
ctatagtccc tcgtctatcg tctatcattt aaggaggcgg ggctcgctct ttagggcggg 180
tatcttaggt attcttctgg ttteggctgc cgtctcggag tctggtcctt ttgctttcct 240
ttcttggtcg aacttcgtgt ttgatcgcgt tgtttctttg gggtcgcat acctaagggc 300
caattcgcca acaaacaagt ttgtgtagtc gtttctatta gggttcgctg gccggcgctc 360
tacttggttg gcgattttta acgcttttg ttttaatttg cttcctcccc tagggctcgc 420
tcggtcttct ctctgttcgc tgcctcgcgc cgccctttgg tgcggggata gctccggcta 480
ttancgtgcc gtgtccgtgt ggnttttgc caatgtgaag gcctaggggt gcgggcttct 540
ttggccatgg ntccccctct tgtgancctt aggggtaacg antcgttaatt naaggtcggg 600
ggttggnata cgttntangg gangcctgng tccgntattc cttgttttgg cctn 654

```

<210> 646

<211> 645

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(645)

<223> n = A,T,C or G

<400> 646

```

tccttcggct tgggtttttt tctgagcccc cccccccccc ccccccacgcc aagtacacag 60
acccaccaaa aacaacgtca acacaacttc gggatatacg accttaagag agaccccgtg 120
gtagacccta ccacagccat ccaatagtca aacaacaagg gcgcacccaa tccatccata 180
gagctatcaa acaacggagg ggaaaggaaa gagcagggtc aacttagcag agatcgaagt 240
cggcactaat tcctttcaag tactcgctcg gcttgtagtt cggggtaaaag tccgctctca 300
aagggccaac gaggttttaa agcgaccccc gtatcgagtc ttcttcgtat tcattaaggc 360
gttaaaggta cgagacctag aagagagtag aattagccca ccaaatcgcc taaaccggca 420
aaaacgacca aaagtcaaag acccttacia atatcacctt aaaacgcca ccccaaaaaac 480
gcgatcagta acgcacgtac ctttccacgc cttttctttc tttcactctc caaaaacaaac 540
ccgaatattt agcgcaaaaa atatccgagg gagaattaga agctattacc cgaaaaaaa 600
ncgganangg antaaatngt ggggaatana cgtttggttt ttctg 645

```

<210> 647

<211> 753

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(753)

<223> n = A,T,C or G

<400> 647

```

accttacctg gtaccgggcc cccctcgag tttttttttt tccaaatata actcagattg 60
tatacgaaaa gctgataata cattgacttt tgctgtttta atcccttgag cctttgataa 120
tgattttttt tgtgttaaca attgtagtat ataaaatcgg attcaccatc cttctgatgc 180
catattgatt agtttgattt tatgggtgat ggatcattgt gtgttaactg tattaagaag 240
aaatggattt gattgacttt gcatccattt ttatctgtgt tactttcatg ttttatttaa 300
aagcatttct ggaccagaat aagttaagtg gtataatttg ctttttacac gtttatataa 360
ttgaagttag caatgtggca aaatctctaa tggaaataaa atgcttcaga atgatgacat 420
aaatctgagc tatttcttgc ctggagaaca agtgttattc ataataattt aatagcttct 480
gaggtgtttt gttcatgtga tgaaggctta tccacctgt atcaattcat gggctctgct 540

```

ttgtttaatg	tagtcagggt	gttaatacna	gacttaagag	tcatacctact	gtgataagtg	600
gtgagtgaag	attacatgtc	ttangaaaat	tatactggga	atatctctga	cattaatggg	660
tttaaagtgt	ttaaggctag	gggatgatgc	aatgganaan	atncttccaa	angtttctgg	720
ttgtttatat	ttgnngaagn	catnaagana	ccg			753

<210> 648  
 <211> 383  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (383)  
 <223> n = A,T,C or G

<400> 648	
gatatcccgg	ggaaatgcgg aggcctttng gcttacgtgt ttaccgcgta gggcaaagcc 60
ttgncaaat	ccgggccagc ggagcggcga gggtagggac tcacgggaag ttaaacagcc 120
tcgtcggcgt	cctcgaggct ccaaaaccag gctctaggcg gggacgactg cagccgttat 180
ggaggccacc	gcggctacgg ccgcggctga ggctcccca ggtggagcgg tggcctggag 240
gggaatcttg	atcctgggcc agccacctgt caagaggagg cggagcgtca tgcctctgga 300
agactggatg	aatattctcc aggagcctga cgaaggcgaa gaagtctttg cagaggaaat 360
tgaatgctgt	ctgatgctac aat 383

<210> 649  
 <211> 349  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (349)  
 <223> n = A,T,C or G

<400> 649	
cgattgtnta	cnagtcttag agtaagctta agntcgn tac cgagctcgga tccactagtc 60
cagtgtggtg	ggaattccat tgtgttggt cactagtaaa tggatttagc tagacanagg 120
anatttacc	tattccattt agcacagtga gganaggcta nacagctagg atgcaataaa 180
aaaaatttta	atgagaaatg tgtgtggtag attaattcta ttaatctcaa gttatagatt 240
aaaaaattta	agtaccncat aaatgccatt tgcctttgct aangntacat ttttatgaan 300
aangacntg	catacnaat ganatactgg actttnggna cttgangga 349

<210> 650  
 <211> 306  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (306)  
 <223> n = A,T,C or G

<400> 650	
cattgtgttg	ggagcatcct tccatcagct cccatgagaa attctctgtt gggtttaagc 60

aatccccaaa	tatatcatat	tgacatgaat	atatcatctc	ctcaatgtcc	agcattagca	120
gacaagatga	gtgctgaaga	tgatataact	cctacctctt	atgtaggcta	gaggtaaagt	180
ctggctctgc	tgactgtggg	gacataccga	aaaggaatgt	gggttaatat	cagangacct	240
ccctgcagat	ccganantca	gggnctggac	tttctgggan	aggaagcnaa	aagttatntc	300
tgaacc						306

<210> 651  
 <211> 769  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(769)  
 <223> n = A,T,C or G

<400> 651	
cattgtgttg	ggcaggggtca tttctaaggc atgggctgga agcttttatt taaaacttta 60
catgtcttag	aagcactctg gttgttgcta ggcagacaat ttacatctc ttgctatacc 120
agttgcatga	agttcatcat gcatattggc tgtggaaaac cttaacagca tcatgtcata 180
aggtttcagt	aagggtttaa tgaaatcatg tattaagcac ttagtatagt gcaccttaaa 240
tgtagcttc	aaaacaatga caacctaaact aatgttgaaa gaagcttggtg tttgtaaat 300
atgtcttatt	gaaagatgtc atcaaatect gttatttcta atcccttaaa gtctctcaat 360
gtatttcttt	ttgccatate caatgacagg accttagttt aagccagtgg ttctctcaac 420
ttctaatacca	gagataacctg ggtgtcccca agaccttttc agagcatcct tgatgtcaaa 480
accattttca	taataatatt aaaatattat ttgctcattg tactcttatt ctctccaaa 540
tattcagcga	gttttccaga agctatataa catgtggtaa catcttatca ctctgacgat 600
taatagaata	tgngnttttg gattcttgng tttaaaattt tctcacttg gggttctaata 660
atggnnacga	ttaatagata tggntcccat gaccagangg ctttaaagca ntcaataatt 720
tttaagagac	taagnactat cctttaaaga tngngaactc catcttaat 769

<210> 652  
 <211> 267  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(267)  
 <223> n = A,T,C or G

<400> 652	
nnangccctt	taaccattgn ggcctccacg cnntggcggc cgctctacaa ctagnggatc 60
cgcnactcta	gnanaangat tggctcttnt gggntgggcc ggnccgggctg gggcggttaag 120
cggggctggg	cgcgcgccgn ggttgnacna ggcgcgcgcg ccncacacn cccggagcac 180
cctcnttgcg	gcentncccc gctcacccg cgcgcgccgn tccgcttttt ccncacccan 240
agcncntttt	atctntgtct cctccgg 267

<210> 653  
 <211> 501  
 <212> DNA  
 <213> Homo sapien

<220>

<221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

<400> 653  
 cccnttnacc cattgctgga ctccaccgcg gtggcgggcg ctctanaact agtgggatcc 60  
 ttncnatgag atgngegang gaggacnnat ttgctatnct ggatggggct gantcntnta 120  
 gctnctctag cancagatgg gttatcgagg aagatgactc caangggcta nantcctatg 180  
 cncatcctaa aanncanctg ctgtnttcag agtacgcgac acatcatcnc tnatgcattg 240  
 ntgancaaga cgggcangtg cttatcctca gcgangatgc ccttaaccan gagctcgaat 300  
 ggacntatca ccttanaggt acanntnccg caccacacac cngcttgcn cctgacgctg 360  
 gactggatcn cttaggccac caatnccccg tttncacat ncctgggacn ctananatac 420  
 tcganggggg gcccgggtanc caattcgccc taatactgag ccttgntacg nacgctnact 480  
 ngnggtccta ttanaacggt g 501

<210> 654  
 <211> 710  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(710)  
 <223> n = A,T,C or G

<400> 654  
 gcgnctttan cncatgctgg gctccacgcg gtggcgggcg ctctacacta gtggatccca 60  
 acatgagtc caccacagna aaactcanca ccaggcagac cccacaactg cagaatccag 120  
 gctgcaattc acagactaat cntctagacc cacctcagta ccagatggta ccacacagct 180  
 caaggnttta ggtttgcggtg gtanactcaa tctctatctt tcaccactgc cagcctgact 240  
 tcagagatcc tgnctctctgg acagtccctca gtggcaggca actctcagga gcctcaggnt 300  
 tttggcacat cccagnacca gccagctgcc acaggccctg accttntanc aacactgccc 360  
 atgtattcca gacttctanc ataccacagt gccatgctga ttgcatctat agangctcag 420  
 gtgcncctca aanctgtgcc tgcctgcagna ngccccacgt ctctggcatg ccccaatgcc 480  
 atnggtggna acanttgact tctgggcatg ntgggaattcc ctaccactga ncctgaccat 540  
 agngggganc ccattttttt cgaggggggg gcccggcccc caattccncc ntatagnag 600  
 ncgtanttac gcgcnnctta ctnggccngt ngtttaacaa cgtcnntgan ctggggaaaa 660  
 cccctggngg cnacccaaata taaacngcnt tgcannacat cccctttctg 710

<210> 655  
 <211> 202  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(202)  
 <223> n = A,T,C or G

<400> 655  
 ccccttttnc ctttcanccc ccccgttttg gngcgcccn acacctactn catccaccca 60  
 cantcgacca ccgagctttt tttccgatcc cancatcnat gcngattttt tctntgcntg 120  
 ctnggcctgc acctttgnta ggtcaagcct ggcccatctt cgacaacttc ctcatcacca 180  
 acgatgaggc atactctgac ga 202

<210> 656  
 <211> 308  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(308)  
 <223> n = A,T,C or G

```
<400> 656
gctgntgaaa gaccacaccg aaaaactctn ctttccgact tccacatgat gatcngcatg      60
tggtgggtgag agacttatca tgacgacatc gcttccnacc atcgcanccn ctgcccgaagc      120
ccattcatgg aggccctgggn anttctgtga ntgacntnga cncctanacnc tnccactgtn      180
tgctatccag acttgnttng aatatnttat tggcnaaana canttncgga atgctgtgnt      240
tgnncattga angatctgat cactatgaga ggggtgaggac nncctgctng ctggcantnt      300
ntaaccn                                           308
```

<210> 657  
 <211> 696  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(696)  
 <223> n = A,T,C or G

```
<400> 657
accntttcca caatnctggn ctccccgagg tggcgggcgc gtcgaccagc aacctcagct      60
gtgggtcttg ttacagtaat gagttactgt aaggaaagtg tgacatttcg agcaatttga      120
tttgtttaaa aactagagca gtttcagggt tttccttgta aatctgtctt atgtgtcttc      180
aatgttcttt cttgaggagt agagaaagga attgttagga atgatgcata aaccatggct      240
tattttatct cgctgccacc cataatcaga gcagattctt gggactatga ccctcatgga      300
gacatgacaa ttgtgtgtgt ggtgggtggg agaaaagagc tgggaatttt tagggtctag      360
agggtccaat caggactatt ttatggagct ctgctcacca actttaagtg agcaccaggg      420
gtgngaaagc gaatcttggg ntcaaaaana caatggnaag gggtaagttg gtatnctgaa      480
ctggccactt cggactctta ttttaactgg tattctcant taaggaggcn ngggtggtct      540
tggtcttgtna aggaaagcct gtgcaatgga atgactttaa aaccccccat taaaaaaaaa      600
angntataaaa tcttgggtct taanaangaa gcctgggttc tnttanccca ttttnccccc      660
gggaaggnaa atnttcttag gnaanggaag ggaagg                                           696
```

<210> 658  
 <211> 698  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(698)  
 <223> n = A,T,C or G

<400> 658

009060"6229660

```

ctggactccc cgcggtggcg gccgctctag aactagtgga tccgtgttgg ctcaattctc    60
aaggctgttg ctgtgcggcc tgttccccac acgtgctgct cagctcaggc aagcaccgag    120
cttgtgttgt ttcattgctca gcgtggaggc ccctcctcca ggtcgtgctc ctgtgggggtt    180
cccatacact caggctccta ggaggagtcc atttagaaag ccagggtttt tctcagagtc    240
ttagttcctt gtgctgtcat ccatttcaca cgacttgggc cctgctcggg gcaacacagc    300
aagagaaaag acagggaaaa taagagaggg accttgcaca cacacgctct ggaccacaga    360
gccctgtgcc cagctcctct gtcaatacag gtggaatctc gtgcaggatc gcaggggtct    420
gtgatgccac caaagagcag gccgggacag ggtaggaga gaaaggagag ggaagtgggg    480
gtttctccta cgcactctta tttgcagagg gaaaggcggg tttgtattgg gggtgtcggg    540
ctttgcaccc acngcacagt tgtgagacac cccatcctn agatcaaagc cccacatata    600
gcttggggaa aaacaaaacn aaacaaaaca aaaacagtaa acctccatgc canttgttgg    660
gnaagttttn aatttncttc cccnaccan cttgcttc                                698

```

```

<210> 659
<211> 750
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

```

```

<400> 659
ncaanctggn ctccaccgcg gtggcgggcg ctctagacta gtggatcctc ctcatggggcc    60
tgatatactc tgaacatatg atgaacattg cttatgaaaa attatttgta ngaaaattgt    120
gaggcctaag aatgntatct tcttttagtg atggctcttg tttgcttctg taaggnaactt    180
gtgggcactc gtaagcttgg atctctttta tctaatacca gntttgagat tttcttggcc    240
ccatagatga attaaaactg gcgtacttct tgtttacaag anggataagt ctcttagggg    300
aagtcttttg ggggtcccaag tcaaaaagat gagggattta ccagttctct aaccttggtg    360
gccccagact ccaaactttg ccttctagtc ccaagaggct atcaaaaagc aaaggccatc    420
ttccaccttc ttttccanaa cagcacacat tccagacagt acttgaaagc aggaacctcc    480
ttatccctta aaaacctctt ggaancatct tccctctctt gcttctacta tgcttggccc    540
acctancatt cncntttttc tggaaaccgg aaaaancttn tgacttnngt tggctacatt    600
cagcttggcc cctacaatn tgggttccat ctgccctaan gaaattttta agggcacttt    660
ttttntggcc cctgactttc nntttttagg gctttccccc angctttgcc cctttgggta    720
aagggttat tttccttccc cttttggaag                                750

```

```

<210> 660
<211> 849
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(849)
<223> n = A,T,C or G

```

```

<400> 660
tcggatccac tagtccagtg tgggtggaatt cgcgggccgc gtcgacgggc agtagtggtg    60
tgcntntcta aatgttataa ttatttcaga attactctgc cagaaagtta tgatcatata    120
tagaagagtt ttagtagtaac tttgaaagta gtggaaagtg gttttcatgt attgtttggg    180
ttaatttaat tttgattata tttgggtttt agttcaggta atttttttgt tgaaaacttc    240
aatgacaat ttcttcatgg ttactaaaga tcactcatgt ggagtagttt cagatttttt    300

```

```
<210> 661
<211> 653
<212> DNA
<213> Homo sapien
```

<400>	661								
aacttaagct	tggtagccgag	ctcggatccc	tagtccagtg	tggtaggaatt	cgcgcccgcg				60
tcgacctcca	ttcgtttctt	gtcctttttt	ttcatTTTTT	ctcatgttct	attcaCTTTA				120
ggttttctaag	ataaatatta	taaaataatt	ttactttata	aattattcac	tgataccctg				180
tctttaacat	gtgaaatgaa	ttcaaaagga	atcttaatga	gaaataatat	actcatgatg				240
tttaatagat	ttgatttcga	aataataagc	cctctgaagt	cctaaggtaa	aaataaagca				300
acttgtttga	taatttttca	tcaagaatgt	atctgagtct	ctgagtaatt	attagtagga				360
atattccatt	atcacaatta	cacagtataa	gctattttagt	ctaactttac	caaaaaaggg				420
agctacttca	acactgtgtg	agacttttaa	tgggtttgca	ttgggtatgc	accattagca				480
agataaccta	ttttacagca	gtgttnttta	acctttccca	tttatttgaa	aggcagctaa				540
gatatagtag	ttaatntaan	gggctgatgc	atztatatta	catgtagana	atgggagata				600
cnaaaqggag	ngggggggana	tnntttgnat	tcnnaagctt	cnttgncaat	taa				653

```
<210> 662
<211> 646
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(646)
<223> n = A,T,C or G
```

[illegible]

```

nccctgggcgt anaaactgna gggnccccaa tccttgggtgg ggtactgctt tgcactggng 600
gaattcaccc ctcattgna acctttccct ntnncaccc ctaaac 646

```

```

<210> 663
<211> 650
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(650)
<223> n = A,T,C or G

```

```

<400> 663
aacttaagct tggtagccga gctcggatcc ctagtccagt gtggtggaat tcgcggccgc 60
gtcgacgtcg acgcggcgng ccgtttcgac gcagttgata catattatta tatactacat 120
nggttttcta gaattaaaaa attaatgtgt agtgccagcc ctagatgtaa gttacatata 180
tcaactctat ccaattttgt cagccataaa acttaccttt ttcacatact tctaactcta 240
acaatgtgag aaatgtagat cattgcaatt ataccacaa ggcagatggc tacatgcaga 300
atggatagca gaatctagct acttacgcta gccacatggg agacgttttt tcctttgttt 360
ttgcaaaatt gcaatataag ttgcatatcg ttagagttaa aagatgtaaa gaaccatag 420
aagccagtga tgaaggacat ttatatatttc acctttacaa angaccttaa aattgcctat 480
gtggagcaga aactggagga gggcnaancc atcngtaaaa aaaattttgn tnctatttgg 540
atgtgggcac cattattacc tccccaggtn cttttttgnt ttaacctttc ttttaaaaaa 600
aataattcnt aatttttggg caaaaaaaaa caaggttttt atttaaattt 650

```

```

<210> 664
<211> 678
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(678)
<223> n = A,T,C or G

```

```

<400> 664
taaaaatcta gactacacta ggaaattatt ttantatcag aagaatatca ggggtgtagt 60
actcatcana gctaaatgag agcgctttta aaatgttagt ttgtcttccg ccatttctac 120
agaaagctgc aatttcagggt tttcaacctt ataggtgata ttttaagaaa aaaaaaagca 180
atcgcaaata gccccactgc ttttacaaat cattttttct cttctaggta tagcctgtca 240
ggtggcctaa tgtaattttt gacatctcta ggaattttta tagaaccaga aatgggtgcc 300
agagatatgc ctgcactaat cttaagtggg gatttatgta tttctcaagc aagtgattaa 360
agcaaaacta ggcacgattg aaatcaanat cttttaggca agaaagtcac gatgagtttt 420
anaattatth taggactctg tggctttctc ttcatagaaa tagaaaaaaa aaattgtata 480
aaaaccacaa aaggtcctga atagcccaa gcaacactga acaaaaangaa caaagcagga 540
agcaacacac taccggaatt caattatact accaaggtgt antaaccaaa acagcattct 600
attgggcata aaatagacca aagaccagtg ggaaacagaa taaagaancc caaataaat 660
cctatatthta cngcccncc 678

```

```

<210> 665
<211> 694
<212> DNA
<213> Homo sapien

```

009060-622566

```
<220>
<221> misc_feature
<222> (1)...(817)
<223> n = A,T,C or G
```

<400> 667  
 nnangacttt tgtggtntta tacaattntt ttttctattt ctatgaagag aaagccacag 60  
 agtcctaaaa taattctaaa actcatcatg actttcttgc ctaaaagatc ttgatttcaa 120  
 tcgtgcctag ttttgcttta atcacttgct tgagaaatac ataaatcccc acttaagatt 180  
 agtgcaggca tatctctggc acccatttct ggttctatta aaattcctag agatgtcaaa 240  
 aattacatta ggccacctga caggctatac ctagaagaga aaaaatgatt tgtaaaagca 300  
 gtggggctat ttgcgattgc tttttttttt tcttaaatat cacctattag gttgaaaacc 360  
 tgaaattgca gctttctgta gaaatggcgg aagacaaact aacattttta aagcgctctc 420  
 atttagctct gatgagtact acaccctga tattcttctg atactaaaat aattttccta 480  
 gtgtagtcta aactttttta aaaagacatg taatccgcgg agtttgtaac tcaaaacgag 540  
 tgcacttagg aggtatcgca agccgtttct ggattaaatt cccagctagc ttgcttgctt 600  
 agcaggggcg ggnaaanaag acatctgcag cctagggaag aaaacctttc gcattgttct 660  
 tacgtgttta cgttatttta tttcctanaa caaggcngaa ttgggactcg aatgggttcag 720  
 ttgggggtgg ggatcccctg gtncataaaa ngtcanaaag anggtacagg cggaacncca 780  
 agggtcgtcc tgcatttana ctcggaattt tgggtgcc 817

<210> 668  
 <211> 826  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(826)  
 <223> n = A,T,C or G

<400> 668  
 cgggggggnt tacgtctctc tggacgcttt tattgtacca gggcgatccc agcccaactg 60  
 taccattcga gtccctactc ctgccttgct ctagggaat aaaataacgt aaacacgtaa 120  
 gaacaatgcg aaagcgtttt cttccctagg ctgcagattg tcttcttcac cgccctgct 180  
 tagctagcta gctagctggg aatttaatcc agaaacggct tgcgatacct cctagatgca 240  
 ctcgttttga gttacaaact ccgcggtatta catgtctttt taaaaaagtt tagactacac 300  
 tagggaaaaat tatttttagta tcagaagaat atcagggggt gtagtactca tcagagctna 360  
 atgagagcgc tttaaaaatg ttagtttgct ttccgccatt tctacagaaa gctgcaattt 420  
 cagggttttca ncctaatagg tgatatntaa gaaaaaaaaa acaatcgcan atagcccact 480  
 gctttttaca atcatttttc tcttctaggt atagcctgtc aggtggccta atgtattttt 540  
 gacatctcta ggaattttta tagaccagaa atgggtgccg gagatatgcc tgcactaatc 600  
 ttaagtgggg atttatgtat ttctcaanca agtgattaaa gcaaaactag gcacgaatga 660  
 aatcaagatc tttaggccag aaatcatgaa nanttttana attattttan gaatctgtgg 720  
 cttctcttct taaaatngaa aaaaaaattg tttaaaccca naaggtctga atacccaagc 780  
 nccctgaacn anagaacaan gccggagcac cccctcccaa atcccc 826

<210> 669  
 <211> 547  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(547)  
 <223> n = A,T,C or G

<400> 669  
 cattgtgttg gggaaaaaat gatttggtata agcagtgggg ctatttgcca ttgctttttt 60

```

ttttttcttaa atatcaccta ttaggttgaa aacctgaaat tgcagctttc tgtagaaatg      120
gcggaagaca aactaacatt tttaaagcgc tctcatttag ctctgatgag tactacaccc      180
ctnatattct tctgatacta aaataatttt cctagtgtag tctaaacttt tttaaaaaga      240
catgtaatcc gcggagttag taactcaaaa cgagtgcac tnggaagtat cgcagccggt      300
nctggatnaa attcccagct tgctngcttg cttagccggg gggcggtnaa aaaaacatct      360
gcagcccngg ggnaaaaacc ttccgattgt tcttacgtgt ttacgttatt ttatttccct      420
nnagcaaggc nggganttgg ggactcgaaa tggtagcgtt gggctgggga tcgcccttgt      480
tacataaaaag ncgtccagaa gagggacggt tacaggcngg ganctccaaa ggtcagtccc      540
tgccatt

```

<210> 670

<211> 232

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(232)

<223> n = A,T,C or G

<400> 670

```

cgaactatct agactaccta ggaaaattat ttagtatca gaagaatata aggggtgtag      60
tactcatcag agctaaatga gagcgcttta aaaatgttag ttgtcttcc gccatttcta      120
cagaaagctg caatttcagg ttttcaacct aataggtgat atttaanaaa aaaaaaaagc      180
aatcgcaaat agccccactg cttttacaaa tcatTTTTTC cccaacacaa tg          232

```

<210> 671

<211> 214

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(214)

<223> n = A,T,C or G

<400> 671

```

ctcccttcc ntccctcgct actnncatt ttcnnaaatt tntttcgct atngggaaaa      60
acaccacat tnttcanctc gcacagaaca ngngggggtg tgtaaatga agggcttccn      120
cnccttctct tattnaanaa cactnaaana gggangggct aaaaccgcg ngatntctac      180
nctatcgcg gcgcttttgg ngttggctag aaga          214

```

<210> 672

<211> 328

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(328)

<223> n = A,T,C or G

<400> 672

```

ngancagcg ngtttaaacg ggcctctaga ctcgaggaga cncctgttgg atggtggatc      60

```

```

acanntcgnt actactatac aggacagagt atcggganct cttggntggt ggngcctgcc      120
aaccactgct nctgttaact gcgtatctga agggactcgg actggcttca gaagaactac      180
cggctcgaat gnaccatgga tgattcncnc tagttgaaaa aaaactcagg cacatgtatt      240
gccactgatg actagcgcca gactnctctc ggctctntaa cgagcccaca tgnctgtgtg      300
ncncccggtg tgnctccaga agaggttc      328

```

```

<210> 673
<211> 223
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1) ... (223)
<223> n = A,T,C or G

```

```

<400> 673
gggggcaaag ctggctagcg tttaaactta agcttggtac cgagctcgga tcccnagac      60
attgtgcatg aaaatgcaaa ttgagtgtgg tctatantgc catctcacc tntctgncgc      120
tcaaaacaac ngctttctgc tgcaatgggt agggctcctn acncacggtc gcnnacggag      180
gccnncttat cctctcggt nnggatccct ngaagcatnt tct      223

```

```

<210> 674
<211> 256
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1) ... (256)
<223> n = A,T,C or G

```

```

<400> 674
gnggggtcnt ngatgagcgc gcgtaatacn atcactntcn ggcnngntgg gtaccgggcc      60
ccccctnaa ggggcgccc ttttttntt tttttcatn acatgataa ntcttnttc      120
taaacagacc acaccactan agttcctttn ctttngtacg gaattgagtt aaagtagagn      180
atacaatgca gggcttcnnc tctatttcac attccaggnt gggtcngnat ggatcgggcc      240
tgcctctccg atgggt      256

```

```

<210> 675
<211> 439
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1) ... (439)
<223> n = A,T,C or G

```

```

<400> 675
nnactagtcc agtgtggtgg aattccattg tgttgggctt gtatggggtt ttttgtctag      60
ttntttggga aatgttngtg ttactatntt ttggatatna tatatgatat gtatggccct      120
tctatgggct cctcanacng aactcaacca ttttcacaa aaccnattcc tcctttccct      180
tcatgactga gtgggtgttg tactatccng gaaactggga cattgtcctt cacatctntc      240

```

```

cettanctgc ctngtccnat tgatgtcttt gagctntgan atgtctttgt taactntctc 300
ctnctctgt actgccggca naattaagca ccatntgtca caaaaagtat tgcgttacct 360
tcacgnatct gttngttnc atncttgetg cttctccngn ggaaaatagg ctnttctggc 420
aaccgaacng aanaaatac 439

```

```

<210> 676
<211> 587
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(587)
<223> n = A,T,C or G

```

```

<400> 676
ngngggcctn attaagcgcg cgtaatacna ctcactntgg ggcgaaattgg gtaccgggnc 60
cccccaagt tnatntgccn aacctctctt ttggaataac aaaaggttta acacatatgt 120
cctcataggg acgcgctttc acacnttcct gacngcttca tanacntcat tncatattct 180
cctcagnaca agttnaggcn gaagggtgagg canacnttat aatttccatt tcacaaatnc 240
ggaaagtgag gctcaaaggg nttaaaaaat aacctgatac aantcataga gccggtnctc 300
ggaanaagca ggagcaaagt ccaggcatcc tgatccaagc tnggtccact gccttccact 360
ctggagaggg ttcatctccg acaaaggaag ggacntgagt ggctgganaa tctcatggga 420
taaagacctc agnatttcat gctcctggaa atcccagggg ttgaacaaca ggtntttggc 480
ccgtggttct ntccctttgn ccatctttta accttggggg aaatgatggc ntcntnagc 540
nttttttttn aaagagatng aaattgaatg attatngct cattggg 587

```

```

<210> 677
<211> 444
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(444)
<223> n = A,T,C or G

```

```

<400> 677
gtggggcatn attaagcgcg cgtaatacga ctcactatag gggcgaaantg ggtaccgggc 60
ccccctcgaa ggggccgccc tttttttttt tttttactgt ccaaactntc tatngatnta 120
gttgaactgt ncaacgattt catgaaatcc tatacacana gccttcaggt ccagagagta 180
aaacaaatth aaatttnttc accanattgn agcagncana agcatccnat natatccgac 240
tacaatgaat natatgctna nggtanctna tttaccact ntgggggtctt tanggtctgt 300
cacaaactat tttcgtaaac atcnntttta anttnggtga atggacctaa tnccagataa 360
ntctattttn tntaccctag catnccgtg gctnactttn cgggctgtgt tggcntactt 420
ttaggagaaa attggtataa atnn 444

```

```

<210> 678
<211> 670
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature

```

<222> (1)...(670)

<223> n = A,T,C or G

<400> 678

actagtccag	tgtggtggaa	ttccattgtg	ttgggagcag	tttaaaaaaa	aaaaagacna	60
aatatacnac	tcttgatnaa	acataaaggt	acagtgggtct	atgaggaana	gaaaagggtac	120
ctnaggatgc	aaaantacct	accacatggg	aaccgttngt	ccacactcat	tccnnanaaa	180
accgagtcct	ctcanttnca	cacgtgtacg	tttcagttgg	gaagtgcttg	ccattactcc	240
naagcctaga	accttcacgt	cctgaagggt	ctggaagggt	tttcagattg	cttaaganac	300
gngcccttc	catattcttc	tccactaccc	nggggaacgg	aacaaatgga	gctgcgacng	360
ggaagcgtcc	cttcccntcc	gaacgctttc	tttcaaacct	gcctgccttc	cnggcgaatg	420
gaccggaagg	tttntctngct	tcctttcanc	ccnaattact	tcctgngttg	aaaattggcc	480
tgttggtttg	caaatgcngg	aatttgttta	ctttctntcat	gtcctgtgtt	gnncnaaccg	540
gctcnccttg	tgccctccctt	tngaaagggt	ttcatcaggc	cccgcctttt	ctcttntaan	600
ngtcctaata	cggncnggac	cactcgggga	aaattttttc	ttttcgaaaa	gccgccccnt	660
ccgtccggct						670

<210> 679

<211> 449

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(449)

<223> n = A,T,C or G

<400> 679

actagtccag	tgtggtggaa	ttccattgtg	ttgggagtag	gtctactaca	ncctacttcc	60
cctatcatan	aaganccttan	caacnttcat	gatccccccc	tentanncct	tttccctcanc	120
tgctccttag	tcctgtttgt	cctnttcccta	acantcntaa	ganagatnac	taatnctact	180
atctctnacc	tcgggaanct	acaanacgtc	tggaactatt	cngaccccat	gcancncat	240
ntcccatcgt	cctcccagcc	cctncccttc	ctttacntta	ctnaacgaag	gtcgacgatc	300
cctcccntac	ctcccnnncc	attgggnccc	aanggnactg	gacctcacga	ntacaccnac	360
tacggggnga	ctaagnctgn	aactccttac	atatntcccc	gttacccecn	gaacncagcg	420
aacngcnaca	ccttggacnt	caagaanta				449

<210> 680

<211> 670

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(670)

<223> n = A,T,C or G

<400> 680

tttcngtgtg	gtggaattcg	cggccgcgtc	gacgagaaga	nggaggagga	naaggagaag	60
gagaagaagg	agaanaagga	ggagaaggag	aagaaggaga	agaaatcatc	atcatcatca	120
tccactgtct	ngcaactatt	taagtttgc	antcccttga	aaacagggtac	ttttgtttca	180
atgtttggga	ccactnctga	cnatgannag	aanaccaata	aatgcttgat	naatgaaaaa	240
nccacttttt	acctgttaga	accctgaggc	taagagaant	gatgtgactc	gacttagtta	300
ccacaaacta	tgatcctagc	atnaattggg	gcattctaac	acctcaactc	cctgtgcaag	360

```

aacagatttt caatgtctac tgatgatttt aaatggatta ntccctctct ttactttctta 420
agggcatgaa gntttatgaa acaaaactat ncagttccag acgcttaacc cacatagtgt 480
taatagtcac cttcaacaca cnactaaacc cccaaaaaan gntttttacg gngtttcgac 540
agttttcttt tctttttgac ttgnntaaca cccnngacaa ctttgtncn tttccntgaa 600
tcacancctt cnaanancca atggtnccgt tttttctct tcnnggcct tccctnttn 660
aaaaccanat 670

```

```

<210> 681
<211> 494
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(494)
<223> n = A,T,C or G

```

```

<400> 681
tcatggtgtc cacagtctga tgtgagcgca ttaaatttaa ggatctccgc cttctcctt 60
aaaactcagg acttggaat gancctagga agcgccctc cctccccc ccanatccaa 120
gccccggacc gctgcgctc cagctgcgcc tagtgaaacc gccgaattcg aattcacact 180
cgnggggccc gcgaagggtg gcgcgcccgc gggagcgccg gggcnagccc gagggactgc 240
aagccaanaa nggaggcatg ggtggcgggg ggcgcgctc gatccaggaa ggagcggagg 300
cgccgatcac aactcttna gacgcctgc ccgcgctgg ccagcgcgca gnetgcagga 360
cgcgcgagc aggaactcgc tggagtttgc caagccccc gnetctggaa agtntgtagc 420
tccctttcgg ancgnetctt ctggccctt gggacgggtg tgcattggg cgggggtctg 480
tataaggggg ggac 494

```

```

<210> 682
<211> 263
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(263)
<223> n = A,T,C or G

```

```

<400> 682
tgatcattca agcngtgngc gnataacgat tgctnagccc aacctttcat agggtcgttc 60
ctttgggaat nggatgtcta ttgaatggca gggatagggg cactcgcat tcgcctctgg 120
tacagttttg catatatatc ctcatcgca gcgagcgtag gggancgtta agtttgggga 180
aatgcnccg catgncctn ccggagctta aacccccaac aatnccatt ttnaaaaaag 240
ntttnttant taaaaaaaaa aac 263

```

```

<210> 683
<211> 255
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(255)
<223> n = A,T,C or G

```

<400> 683  
 cttgcccggc atgcacagac ntnttttacgg acacnctact ccaagngagc ctgnanctgt 60  
 ctacgggtcaa nctctaaggt tngncantgc cacanatggc atagtcccgga gggcggtgnan 120  
 tctggantgc tctctgcact tgaacntaaa ggcgntttca aganaggncat aatngcctgc 180  
 ctcttgacaa cnaacaancc cacaccnacc tangaccctn tangcaagga ctggattctg 240  
 naaatgcaat acaca 255

<210> 684  
 <211> 922  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(922)  
 <223> n = A,T,C or G

<400> 684  
 acccttcatt tcatgtgctt ctattttcct acatctttta catgactaag ggattaatga 60  
 aatcacctct tcataatcat gaccataatt tcatccaaca agtactcaag tttgggtgta 120  
 gcactttatt aatgcttacg aattctctct ctctccctct ttctcttttc cttagtcctt 180  
 gcacaataag gattttttgaa tgtataatat catcttaggt aagctttcat atggtttttg 240  
 catatgaagc ttatgactgt cataagccat accaagcctg tggagtatgg catgattttc 300  
 attacataat ccaatgaaaa tagacttatt ttaaatecct aactttgtag ttttaatttg 360  
 tatttcacta tcttgaaatt aacagctagt acttatccat cacagcagtc tcctactgac 420  
 atgaagcaag ttgttgaatg cagtaganca tgaatgaaag catttaatgt tanacaaaaa 480  
 tgggtgatac ccaagcattc tgaattattt gcatacaagga atgggacatg tacattagtg 540  
 gcatcatttc tacciaatag tgacttgaat tgttttttta aaaaaaggan aatgantttc 600  
 tcaatttgct ttaaaaaatt ttnaaaaagt tcaatggcat gctgctttgt ctggacttaa 660  
 tttattaaca attnttaanc cttccttaag gacanaattt tgggtgttcag gatcncctg 720  
 aagggtctta tttttnatan nattccaaac caaaagggtg gtttaaaatg ggnggggtcc 780  
 ccccncaaaa atttgaccg gcttttttat atttaaaaaa nttncnttt gngtttgaaa 840  
 nctnaatacc aattaagggg gaattttacc tnccagtggg aaaaaaaaaac nctngcctnt 900  
 naaaaaattc ccnggagnca at 922

<210> 685  
 <211> 531  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(531)  
 <223> n = A,T,C or G

<400> 685  
 tgaggctctg taaaactggt cctctgctag gcatacttca tattctctat attaaactca 60  
 tctttaattg gcatggaaga ttcattgttc caaatctcag atgaagatcc tatattggat 120  
 gcaattaagc ctggcagcgc cctcaaaaga cagtcttgct actgctagcc acagccagga 180  
 cacagtaaca gttccttcta gtgaccnag accataanaa atananatct aaagaattct 240  
 gactccaaag gcattagccc attcctggta ttgccaatta tgatagaaaa aattgccaag 300  
 ctctggggac atggaaatac actcagtaca tttgagaact ggagaactan tttccaaaat 360  
 agtatgaaga catganggtg attgtagata tntgagtttg gagaanttga gggaaatcng 420

```

attacacatg tttactacaa gagatgttna taagtaaaga aggctgata tacaatctaa      480
cagacnantg agataaatct taantcacia ctgacntccc ttttggggcg g              531

```

```

<210> 686
<211> 336
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(336)
<223> n = A,T,C or G

```

```

<400> 686
ggngncctna tgagcgcgcg taatacgatc atatagggcg aattgggtac cgggcccccc      60
tcaagaacac tacaagctat gtctcttctt canagagccc tgaantttta acatattgaa      120
agctctnatc ttgccaaana actccactta acttcaaaac acaccctcca cacacatcat      180
gatcaactna gatcttactg aaccagaatc ctnaatggca tacttcagga acaggggtcc      240
anagaagcag ttctcaaant gcagctnaaa aagaaactga aaaccaatt catgcaanac      300
ctagggctta tttgagagca ttttccagtg cagatt                                336

```

```

<210> 687
<211> 271
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(271)
<223> n = A,T,C or G

```

```

<400> 687
aatctgcact ggaaaatgct ctaaaataag ccctaggtct tgcattgaatt gggttttcag      60
tttcttttta agctgcactt tgagaactgc ttctctggac ccctgttcct gaagtatgcc      120
atttaggatt ctgggttcagt aagatctcag ttaatcatga tgtgtgtgga ggggtgtgtt      180
tgaagttnag tggagttctt tggcaagatc agagctttca atatgttnaa acttcagggc      240
tctctgagaa gaggacatag cttgtagtgt t                                271

```

```

<210> 688
<211> 740
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

```

```

<400> 688
tgatgaagcg cgcgtnttac nactcactat nggggcgaan tatgggtacc gggnccccct      60
cgaagcggcc gccctttttt tntttttttg tgagagttaa aataaaatat ttgagttaa      120
tttaaagttt gagtttaatt aaaatatatg gcatatccca agttgggctt tgcanaaaga      180
acacttctca ggaactgtta gttggtgtac caggaactca gaagggtcct gttattaaat      240
atatttgtaa aatgcatgga ttctctgaan atcncctctgc atgtgagcaa cacttacatc      300

```



ctgtgacctt	tctacactgt	agaataacat	tactcatttt	gttcaaagac	ccttcgtggt	1020
gctgccta	atgtagctga	ctgtttttcc	taaggagtgt	tctggcccag	gggatctgtg	1080
aacaggctgg	gaagcatctc	aagatctttc	cagggttata	cttactagca	cacagcatga	1140
tcattacgga	gtgaattatc	taatcaacat	catcctcagt	gtctttgccc	atactgaaat	1200
tcattttcca	cttttgtgcc	cattctcaag	acctcaaaat	gtcattccat	taatatcaca	1260
ggattaactt	ttttttttaa	cctggaagaa	ttcaatgtta	catgcagcta	tgggaattta	1320
attacatatt	ttgtttttcca	gtgcaaagat	gactaagtcc	tttatccctc	ccctttgttt	1380
gatttttttt	ccagtataaa	gttaaaatgc	ttagcettgt	actgaggctg	tatacagcac	1440
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aaacaaaatc	taacttgtaa	ttccttgaac	atgtcaggac	atacattatt	ccttctgcct	1560
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gggaatgttt	atggggcacg	tttgtaagcc	tgggatgtga	agcaaaggca	gggaacctca	1800
tagtatctta	tataatatac	ttcattttctc	tatctctatc	acaatatcca	acaagctttt	1860
cacagaattc	atgcagtgca	aatccccaaa	ggtaaccttt	atccatttca	tggtagagtgc	1920
gcttttagaat	tttggcaaat	catactggtc	acttatctca	actttgagat	gtgtttgtcc	1980
ttgtagttaa	ttgaaagaaa	tagggcactc	ttgtgagcca	ctttaggggtt	cactcctggc	2040
aataaagaat	ttacaaagag	ctactcagga	ccagttgtta	agagctctgt	gtgtgtgtgt	2100
gtgtgtgtgt	gagtgtacat	gccaaagtgt	gcctctctct	cttgacccat	tatttcagac	2160
ttaaaacaag	catgttttca	aatggcacta	tgagctgcc	atgatgtatc	accaccatat	2220
ctcattatcc	tccagtaaat	gtgataataa	tgtcatctgt	taacataaaa	aaagtttgac	2280
ttcacaaaag	cagctggaaa	tggacaacca	caatatgcat	aaatctaact	cctaccatca	2340
gctacacact	gcttgacata	tattgttaga	agcacctcgc	atttgtgggt	tctcttaagc	2400
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tgttcttgga	tagtccaata	aataatgtta	tctttgaact	gatgtcata	ggagagaata	2640
taagaactct	gagtgatatc	aacattaggg	attcaaagaa	atattagatt	taagctcaca	2700
ctgggtcaaaa	ggaaccaaga	tacaaagaac	tctgagctgt	catcgtcccc	atctctgtga	2760
gccacaacca	acagcaggac	ccaacgcatt	tctgagatcc	ttaaatcaag	gaaaccagt	2820
tcattgagttg	aatttctcta	ttatggatgc	tagcttctgg	ccatctctgg	ctctctctct	2880
gacacatatt	agcttctagc	ctttgtcttc	acgaacttta	tcttttctcc	aacacatcgc	2940
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tacctaatgc	atgtgggact	taaaacctag	atgatgggtt	gataggtgca	gcaaaccact	3840
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aagtaaaatt	taaaaaaaag	tga				3923

&lt;210&gt; 691

&lt;211&gt; 882

&lt;212&gt; DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(882)

<223> n = A,T,C or G

<400> 691

ttactcacta	tagggctcga	gcggccgctg	aattctgctg	cagtgagctg	tgattatgtc	60
cctgcactcc	agcctggatg	acagaacacg	atcatttctc	taaagacaaa	caaaaaacat	120
aaaataaaaac	tagtataagg	atagaagccc	agggttgatt	taagtctgcy	gaaatcataa	180
accataggtc	agacttctca	ttgatgaggt	acttgtgggt	tagaatacaa	ttaggtatat	240
ttggtctaga	aaccaggatg	gaattagaga	ataaaaagact	gagcaatagc	atgttatagt	300
attagaaaata	ctatagaaat	aggaaaagcc	ctgattatga	ctttggagtt	ctgatccaac	360
atctgggatt	atthagatat	tttaaaggaa	aacgatgact	tttagctctc	aggatgtag	420
tttctcaac	cataaaatga	agagcctcga	aaagatttcg	tttaccagat	tatttctgaa	480
gtcaattcca	gttctaaaat	tccatcactg	ngcactaagg	caaattgaat	tgaataaagt	540
attgggnatg	cataaaatac	tctattttta	aaaangaata	gtaattatcc	attggnaaca	600
gacgcantca	tccagnctc	tcctaccctg	ncccatgnch	tatgtagana	tgtanctcta	660
atcccttaac	aaaccgattt	tgcaaaggag	cttanccttg	gggtacttgg	tcanggcaac	720
tggtctactt	tnaagactca	tcttcactta	ctgggcacca	aatncctacc	attgcatcaa	780
actgggggtc	ccatncaagg	caaaccctgn	gaaatcttta	atcccgaat	tggcgccccaa	840
ttttgngggg	tttccnaaaa	gaatcntccc	ccccgagggg	cc		882

<210> 692

<211> 235

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(235)

<223> n = A,T,C or G

<400> 692

ccgcactngt	aangnccgcc	agngngctgn	aantccgctn	agcncggatc	cactagtcca	60
ttgatggtaa	aagggtagct	tactggnatg	tccgngctgt	ccanganata	atacncagga	120
cttctcanag	cacttaatat	gttaatatata	aactncgnga	aaaaagatnt	tcnatgaanc	180
nttctcttta	ggaggtcagg	ngagaatagt	gttaatgnca	ttaagganag	aacga	235

<210> 693

<211> 383

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(383)

<223> n = A,T,C or G

<400> 693

nttatgtaag	aaatgtcata	tatcttttat	tttctttaaa	tcaaaataaa	tatgactttg	60
agcatcccat	cccatgcccc	atcctatcag	aatggtagga	acatcaacac	aaataattag	120
taatgcaccg	catctacatt	cccatgctct	ctttacttct	tcagcattgc	ctaaaggcat	180

```
<210> 694
<211> 204
<212> DNA
<213> Homo sapien
```

```
<210> 695
<211> 670
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(670)
<223> n = A,T,C or G
```

```
<210> 696
<211> 317
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(317)
<223> n = A,T,C or G
```

<400>	696						
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gtagcaggg	aagagaacag	aattttatcc	acccttatct	ctttagttag	tgaacaaaca		120
qccactgtc	atcgtggata	catttcactt	ttttcacatg	actaaggagc	tctccggagt		180

gaagagtgag	taaatatggt	tattacgcat	tcatttgcta	agaatcatca	agaacccaaa	240
gtttagagacg	tttcgtgggt	gaactttctc	cctactgtct	agtagaatta	tatgggggatt	300
ctggatctgc	tggtgcc					317

<210> 697  
 <211> 246  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(246)  
 <223> n = A,T,C or G

<400> 697						
ctncagctct	aatcgactnc	tatnaggnat	gatggcncgt	gcngcgcgta	cgtantgctt	60
ggatcctcnn	anagcggacg	cctactacta	ctaaattcgc	ggncgcgttg	actttttttg	120
tttttttct	tnacagagnt	ntttttgtgc	ccttggttct	tatgctcana	ctcngcaaaa	180
aanatcaaaa	gntacnnatg	aaaaacntat	nccatctnca	naaaggaggt	gnagntatta	240
ctttct						246

<210> 698  
 <211> 3674  
 <212> DNA  
 <213> Homo sapien

<400> 698						
agaaagtttc	cttttttttt	tttaatggtg	aaaagatata	cacatattta	gaattagcca	60
gctgggctca	gttttagatta	ttccaatttt	gttggcaaca	tccagagcat	cgtaatcagg	120
agccagtga	acatattcct	tcttctctcc	atcaggccaa	atcacggtgt	tgaccttggc	180
cacatcaatg	tcttagaact	tcttcacagc	ctgtttgata	tggtgcttgt	tggtcttaac	240
atccacaatg	aacacaagtg	tggtgtgtgc	ttctatcttc	ttcgtgggtga	ctcagtggtc	300
agcggaaaact	tgatgatagc	gtagtgggtca	agcttgtatc	tcctggggagc	gctcttccaa	360
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cggatcttct	ttttttgtgt	ggctgtggac	acctttcaac	actgtcttct	tggtctttaa	480
atccttcgct	ttgggttcgg	ctataggagg	ggcaggagct	tccttcttca	cttccggcgc	540
catcttgtga	aaagggaaaag	tttcctttct	aataccattt	tcacttctcc	cgaattttgt	600
ggatcggttc	ttggtatcta	ccccagattt	caggagtgtt	ggctggatct	tagggattgt	660
gaagtcttca	tttccctgtg	gtgagatctg	aggcatgatt	ttaaacagtg	tgagggaagg	720
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gcatgcccat	ctgcacagtg	ggtgtaatca	ccctacagaa	caaaaacaaa	aaggcaatgg	900
agaggaagct	gtaaagcact	gtacatgttt	aactcattgt	tatgtaagct	agccgaaggc	960
ttcacagact	tgaattcata	tcccaagttc	tcttctgtga	ctggaaactc	tgcttaggt	1020
tgcttaaaac	ttgagaaaaca	gaatattgct	tcccctgcct	gccttcttga	gtacacttgc	1080
ctacacaaag	atgcacatcc	ttgtttgtgt	gtgtgtgtcc	atttgctgtg	acattcttgt	1140
gaaagtcaaa	gtttcccagc	tggtgacata	cacaagtttg	tttgggtgcaa	cctgtcagat	1200
gcatccctta	gacaggccct	ttgatactct	gggaaagaca	ttggacttac	agtcggaacg	1260
aaaagaaaaga	aatgtgatat	gtatagcgtg	cagtgtgttg	gagttttacc	tgtattgttt	1320
taattttcaac	aagcctgagg	actagccaca	aatgtaccca	gtttacaaat	gaggaaacag	1380
gtgcaaaaag	gttgttacct	gtcaaaggtc	gtatgtggca	gagccaagat	ttgagcccag	1440
ttatgtctga	tgaacttagc	ctatgctctt	taaacttctg	aatgctgacc	attgaggata	1500
tctaaactta	gatcaattgc	attttccctc	caagactatt	tacttatcaa	tacaataata	1560
ccacctttac	caatctattg	ttttgatagc	agactcaaat	atgccagata	tatgtaaaag	1620

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caacctacaa gctctctaata catgctcacc taaaagattc ccgggatcta ataggctcaa 1680
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ttttttcatc catccttttaa ttcagcaaac atttatctgt tgttgacttt atgcagtatg 1800
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<400> 705

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<213> Homo sapiens

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Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys
      35                      40                      45

Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu Thr Gly
      50                      55                      60

Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala Ser Leu
      65                      70                      75                      80

Tyr His Arg Glu Lys Gln Val Leu Ile Gly Gln Trp Val Glu Ser Gly
      85                      90                      95

Trp Glu Gly Trp Ser Gly Phe Leu Gly Gly Gln Leu Ala Gln Asn Leu
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Val Ser Gly Lys Gln Leu Trp Arg Met Leu Leu
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<210> 707
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<213> Homo sapiens

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009060" 6225960



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Gly	Gly	Cys	Leu	Gly	Tyr	Leu	Leu	Pro	Ala	Ile	Asp	Trp	Asp	Thr	Ser																		
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			180					185						190																			
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0096579.090600  
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<223> n=A,T,C or G

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<213> Homo sapiens

<223> n=A,T,C or G

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<213> Homo sapiens

<223> n=A,T,C or G

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<213> Homo sapiens

<223> n=A,T,C or G

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<210> 717
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<210> 719
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<212> DNA
<213> Homo sapiens

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009060"6225960



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<220>  
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<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(347)  
<223> n=A,T,C or G

<400> 725  
aganggttnt atncatgctg tactcgcgcg cctgcagtcg acactagtggt atccaaagaa 60  
ttcggcacga gagacggtgc gcatgggacc gagggcccca gccgngagg cgccgccgcc 120  
gagcccgcgg ncagacgccc catcagtagc gtccgcaccg ggnagcccg gntctcgccc 180  
gagccgtggg cgcgcccagag gggcgggctc gctcccgcgc gtccctcgca gctctgccgg 240  
gcccagagccc gcgcgctcgc cgcgcgccgc ttgcgctcgc gncgcgcgcg nccggnaaac 300  
gcggtcgagg tctggatgng gcanngcccg cncctntcgc tgagcct 347

<210> 726

009060" 62225960

<400> 729

```

cngactgctn gcgttttaaac ttaagcnagg taccgaacgg ggatnnacga ctantgatcg 60
gctggctgct tccagtcgat tanatttgtg aaaaagctga accncngccn gttaaggggg 120
annatgcaaa anatncatcc nnetgccccn taaactgntc tntccnaggg aaaaaangga 180
ag 182

```

```

<210> 730
<211> 678
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(678)
<223> n=A,T,C or G

```

```

<400> 730
cactcncact ccggacctag gcncttcacc actgctctct tctctctct cctctctctc 60
ctcggggctg ggggaccttc cccagtgacc atctcacttt ggctgaancc cactcggggc 120
agcctgagtt tggggctctt ggccttctca cctctctcgg cccctctctt ggcccgcacc 180
aggccaaacc ggggcagccg taccttgagc ttgtgtccgg cctctccctc cccctctgcc 240
acctggtact cggcatggtt gcccccgga tggcgagagc tccacgtcgg gcagtgagaa 300
gcagaaagta cgctcggccc ctgggggctg ctctcagca cctcgcgcc ccaccctagc 360
tctggcccc agtgtgggca acttcagcct cagccaccc tcgcctgtgg ccgcctcgcc 420
cgctgtgcc tctcggtta gccccagtc caactcaagc tggggcactg tcacgggtgg 480
catcttaaag acacctcac ccaccagcag ctccaccct gcaacctggg ctccaggcaa 540
aaaaagggc acctggggca nctgaacct gtacctgctg tgccctctgc tgaanggaat 600
gttatctgaa cctgctgcc tgggggtact gccttccaa aaccgggtca antccacctg 660
ttggaaggna aatncccc 678

```

```

<210> 731
<211> 135
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(135)
<223> n=A,T,C or G

```

```

<400> 731
gagatccgac gtcacccct tccggcgggc caagacgctg caactcccga ggcngccaa 60
atatcttttg aagagcgctc ccagcccaac acaatggaat tccaccacac tggntagtg 120
gatccgagct aagcc 135

```

```

<210> 732
<211> 660
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(660)
<223> n=A,T,C or G

```

nagtncatt	tncactaaac	tgngagtgc	tgggatggct	ttcaggatgt	cctgaatcct	60
ctataattgt	atacaaaac	gtgagttttt	aaaaactggg	ttagagctat	tggttcctca	120
gagtctcagg	catcttagac	ccccaaaaag	gttaaggact	actgacttaa	ccaattaggt	180
ttgagtggca	ttggctttga	agaaaaagcag	aggaaagata	tattttataa	ttctggqcaa	240

```

caaaaaagtg gatgtgtgcc agcatcttag agtagaatcc tcttaaaagg atagcactgc 300
atatgaacta gtaggtttta accagtgcac atttaggcga agtagctcat ttttctgtta 360
gaattctttt ttatttgga atgggcaagc ttttacagct tttaccttgc caatgaatac 420
ctggaattta aaaaatcttg ttaggcataat tgcccataaa gttttttttc ctagatcata 480
tattcagtaa atatgtttgt agctttatct caatcccca attcattgag gggttgaaaca 540
atgtgaatgg tttgagtgt gaagctaagt ttttctgtga gaggctaagg gcatttatac 600
caagatatgt tagacttgtg gttcctgtta accattgctg tagacaatag gaattactgt 660
atatccacat ttttaatttt aacatcattc tgtc 694

```

```

<210> 735
<211> 126
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(126)
<223> n=A,T,C or G

```

```

<400> 735
ncnttgaaac nggttgacca gacttcagga ctgtgcgctc aatcgtggag aatctcgtgc 60
cgaattcgga acgagtctct ctctctctct ctctctctct ctctctctct ntctctctct 120
ctctctctct 126

```

```

<210> 736
<211> 165
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(165)
<223> n=A,T,C or G

```

```

<400> 736
cagaagcctt taaaccggtt ngaccagact tcaggcctgt gcgctcaatc gtggagaatc 60
tcgtgccgaa ttgggcacga gtctctctct ctctctctct ctctctctct ctctctctct 120
ctctctctct ctctctctct ctctctctct ctctctctct ctctc 165

```

```

<210> 737
<211> 125
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(125)
<223> n=A,T,C or G

```

```

<400> 737
ggnagcccct ttaaccgttt gtccagactt caggcctgtg cgctcaatcg tggagaatct 60
cgtgccgaat tcggcacgag tctctctctc tctctctctc tctctctctc tctctntctc 120
tctctc 125

```

<210> 738  
 <211> 137  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(137)  
 <223> n=A,T,C or G

<400> 738  
 ggagncnctt gancaggatg accgacttca ggctgtgctg ctcaatcgtg gagaatctcg 60  
 tgccgaattc ggcacgagtc tctctctctc tctctctctc tctctctctc tctctctctc 120  
 tctctctctc tctctctc 137

<210> 739  
 <211> 970  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(970)  
 <223> n=A,T,C or G

<400> 739  
 aggcctatatt aggtgacact atagaacaag tttgtacaaa aaagcaggct ggtaccggtc 60  
 cggaattcgc ggccgcgtcg acggcccttn gtgccactag ntctttcatt cttccccccc 120  
 atcaatcagt gaacttttta gcctactcaa agctttgctc caatgcatag gatttatgat 180  
 tgtgggggatt tccagataat ataaatattc aacatgaata ttttaaatta aggcattgaga 240  
 cattttttct aactgagcat agccatgaac ctctcacgct tgttcctctg tgtcagtttg 300  
 tancactgaa tacagcagcc ctctctaaaag tccaggcagt gcacaggctc tgacatgatg 360  
 aagtgcagtg ttgctatggg gatatttgag ctggccaaat agtcactggg tgattttacc 420  
 cagcaggaga tttttgcaaa aatttcctgg gtgagagtga aatcaaactc ctattttgnt 480  
 tctcctctgc aagctgnagt taagatggat taatgagtag ttttagatta attaaactctg 540  
 aagagaaaaat gggagaaaaa tgaggaaggg tgttggcaga agtcattgct ggaatccttc 600  
 tgaaggaggat actgacttca cttgcaaaaga cnagagacta naagacaatg aagttaaact 660  
 tggcctgtct ctcatatgat agatgctgag agtcaggntc agggaaattt aattctgtca 720  
 tacgcatatn ggattatgtg gtcattggatt tgttggcact aaccngcctn taatcagnat 780  
 aagaaaagtg ttttggtaga naaagaaaat tatggcccag aaaaacctgg aanacttgga 840  
 aaaaatgntn gggggccttg ggtggtggtc tnaaaanacc ccctggggat ntttaaacca 900  
 aaantgaaga agggaaaaat ntttccccnt nttttntttt tttgccccct tgggattggn 960  
 tttnttttcc 970

<210> 740  
 <211> 739  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(739)  
 <223> n=A,T,C or G

009060" 6225960

&lt;400&gt; 740

```

gntgtcnaaa aagcaggctg gtaccgggtcc ggaattcgcg gccgcgtcga cggcccttgg 60
tgccactagt tctttcatte tccccncca tcaatcagtg aacttttttag cctactcaaa 120
gctttgctcc aatgcatagg atttatgatt gtggggattt ccagataata taaatattca 180
acatgaatat tttaaattaa ggcattgagac atttttccta actgagcata gccatgaacc 240
tctcacgtct gtctctctgt gncagtttgt agcactgaat acagcagccc tcctaaaagt 300
ccaggcagtg cacagggtctt gacatgatga agtgacgtgt tgctatgggtg attttgcagc 360
tggccaaata gtcactgggtt gatttttacc agcaggagat ttttgcaaaa atttcttggg 420
tgagagtga atcaaactcc tattttgttt ctctctgca agctgnagtt aanatggatt 480
aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaagggtt 540
gttggcagaa gtcattgctg gaatccttct gaagggagta ctgacttcac ttgcaaagac 600
aagagactan aagacaatga agttaaaactt ggctgtctn tcatatgata gatgcttgag 660
agtacaggnt cagggaat ttaattctgn catacgcata ttggattatg tgggtcatgg 720
ctttgtttgg cncctaacc                                     739

```

&lt;210&gt; 741

&lt;211&gt; 1171

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1171)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 741

```

gccttgnggt gacactatag aacatgtttg tacaaaaaag caggctggta ccgggtccgga 60
attcgcgggc gcgtgcagcg cccttnntgc cactagtctt ttcattcttc cccccatca 120
atcagtgaac tttttagcct actcaaagct ttgctccaat gcataggatt tatgattgtg 180
gggatttcca gataatataa atattcaaca tgaatatttt aaattaaggc atgagacatt 240
tttcttaact gagcatagcc atgaacctct cacgtctgtt cctctgtgtc agtttgtagc 300
actgaatata gcagccctcc taaaagtcca ggcagtgcac aggtcttgac atgatgaagt 360
gacgtgttgc tatggtgatt ttgcagctgg ccaaatagtc actggttgat tttaccagc 420
aggagatttt tgcaaaaatt tcctgggtga gagtgaatc aaactcctat tttgtttctc 480
ctctgcaagc tgtagttaag aagggtattaa tggagtactt tttagaatt aaattaacct 540
cttgaaagaa gaaaaaatgg gggaagaaaa aaagtggaag ggaaaagggn ttggttttgg 600
gccnaaaaaa aagttccaan tttnggcntt ggggaaaaat tccccntttt cettggnaaa 660
aggggggnaa ggttaancct tgggaacctt tttccnccct tttnggccca aaaggggaac 720
ccanggggaa agaaccttta ggnaaaggaa acccatttgg gaanggggtt naaaacctnt 780
ngggcccccg ggccctcttc caanaaggga aaaaaaaagg cctggaaaan gtaccagggt 840
ttcangggna aaanttaaaa ttcttgcca atancnccat aattgggaat tatggggggg 900
ccatgggctt ttggtttggg cnccttaacc cgcnttttaa attcaaanna aaaaaaagn 960
gttttgaaaa nnaaanaaaa aaaattnaan ggncccnaaa aaaaaccctg gaaaacctt 1020
ggaaaaaaat tngnnggggg gccnttttgg tgggggggtt tnaaaaaacc ccctnggggg 1080
ttttttaagc ccaaaagggg gggaggggna aaanggtnc cttntttttt ttttngccc 1140
cccttgggga atggnntant tcangggggc c                                     1171

```

&lt;210&gt; 742

&lt;211&gt; 739

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

009050 "64245950

<220>  
 <221> misc\_feature  
 <222> (1)...(739)  
 <223> n=A,T,C or G

<400> 742  
 gntgtcnaaa aagcaggctg gtaccgggtcc ggaattcgcg gccgcgtcga cggcccttgg 60  
 tgccactagt tctttcattc ttcccccacca tcaatcagtg aacttttttag cctactcaaa 120  
 gctttgctcc aatgcatagg atttatgatt gtgggggattt ccagataata taaatattca 180  
 acatgaatat tttaaattaa ggcattgagac atttttccta actgagcata gccatgaacc 240  
 tctcacgtct gtctctctgt gncagtttgt agcactgaat acagcagccc tcctaaaagt 300  
 ccaggcagtg cacagggtctt gacatgatga agtgacgtgt tgctatggtg attttgcagc 360  
 tggccaaata gtcactgggtt gatttttacc agcaggagat ttttgcaaaa atttcctggg 420  
 tgagagtga atcaaaactcc tattttgttt ctctctcgca agctgnagtt aanatggatt 480  
 aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaagggtt 540  
 gttggcagaa gtcattgctg gaatccttct gaagggagta ctgacttcac ttgcaaagac 600  
 aagagactan aagacaatga agttaaactt ggctgtctn tcatatgata gatgcttgag 660  
 agtacaggnt cagggaaatt ttaattctgn catacgcata ttggattatg tgggtcatgg 720  
 ctttgtttgg cncctaacc 739

<210> 743  
 <211> 610  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(610)  
 <223> n=A,T,C or G

<400> 743  
 ctgtccttat ttcttttagca aaaatttccc aagagaagaa ttgctgggat aatgcacatt 60  
 taaatttttg atagacattc ccaaataatta tacctgtttt tgagacctt aattcctggt 120  
 gtcaaattgc cctatatatg gagtaataaa cacgatttaa agaaatgagg actaaaaaaaa 180  
 gattatatat aacccaacat aaaggcaacc tcttaggcgt tgacagaaac tgacaacttt 240  
 ttatctgttg gtgcgatcca ttataagtaa cctgagcacc ttattttttc tttttaaaact 300  
 ctaggtagga taccgaggt ccacaaattt ttcataagaa atattttttc tctgccctat 360  
 gagattttta aaaatattat actgcttcaa ttgcatcaaa agaaatggac cctaatatct 420  
 atgatgaagg atttggagtt agaagacctg agtttcaatt ttggcatggc tgtttgtcta 480  
 gctctgngat cttggacagg tcaattgact tggcttaatc ttctcatcca tttagnngag 540  
 acagcaccac tattcacagg actattgnen gaattaccag acaatagcat agngngaaaat 600  
 ataangcctt 610

<210> 744  
 <211> 127  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(127)  
 <223> n=A,T,C or G

<400> 744

ttnacctccc tggaccgggc ccccttccc cgggcggntc ccccgggctg caggaattct 60  
gcacgaggga gagagagttn gagagagaga gagagagaga gagagagaga gagananaga 120  
gagagag 127

<210> 745  
<211> 458  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(458)  
<223> n=A,T,C or G

<400> 745  
gatataccgg gattcgccgc cgcgtcgacg tggcctctag tttgtcctgg tccaaagcag 60  
ggaagctggg ctacgtcctg cccaggtcag ccttaggtta agggctgcct gggggaggga 120  
acttctctggg ctttcgggtc tctgtgact ggggtggctc ctgtggccca gaatgccctg 180  
gagaaggggtc ctactggaag cgaaggtgca gggcagcagg gcctgaggcg caggagctgg 240  
tggaggctcc cagcacaggt cgcgcgccca gtcacatcac tgctgatggg ggggggactt 300  
ggggagtttc ccccgagaat gggaggtctc acagtcctcg tgctgcaatg ctgtcggtgc 360  
actgngncng caatgtgctc atggnactt gctttttctc tgtggccccg gccgatttat 420  
ccagcanngc accctcttc tntctctcgg anaaagcc 458

<210> 746  
<211> 893  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(893)  
<223> n=A,T,C or G

<400> 746  
aagcaggctg gtaccgggtc ggaattcgcg gccgcgtcga cgtggggagt tagctctctg 60  
gaccccgctca tagagtaagt catcgataga gcatttgctt gatggggact tccagaaggc 120  
cannгаагt cctgccgact tcctggggaa gcccatccgc acgtgggggtg aggggtcccca 180  
natggaagca gctgtgtatg cagggagggg gcagaggctg ctgccaatgg gcatgtccct 240  
tacctgaaag ggccacctct ccaggtgaca tgtcctgggg gagccggggc cgtctgctcc 300  
ggccagaggc gctcagctca ggccacacca ggcagggcac ctcccaacct ggacaggtgg 360  
ggaccaaggt ggccttggac aaaactctct gtgtttgcca agcacccaat cggacacaga 420  
gagtcaacca caccacagtc acatggtgtc cacacngcag ggtcaagga ggcccgcccc 480  
ctccccctca gacgtccctg ggcctctggg agtcagcaag gacgaggacg gcattgccct 540  
tcgagacagg aagggagtgga cctcctcccg cgggcatcca ggctcngctt ctccggagag 600  
gagagggggc tacttgctgg ataaancggc cggggccaca gagaааааgс ааggтgacca 660  
tgagcacctt gcaaacacag tgcacccacc agcatttnag caccngggac tgtgaagacc 720  
tcccatttct tcggggggaa acncgcccaa ngttcccccc accntcacta gtgnattgtg 780  
acctgggggn cgggcagacc cctgtngctt gggnnagccc tcnccccagg tttctnnggc 840  
ngccenttaa nggnccctng nttggccctt tggccnctt tncgcttttc cca 893

<210> 747  
<211> 738  
<212> DNA

009060" 15225960

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(738)

<223> n=A,T,C or G

<400> 747

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gatatcccg  gaattcgcgg  ccgcgtcnac  gaagcacaga  cctgngccct  gctctcatgg  60
ggcagactgc  catttgatcat  tnattactga  aggaaaggga  tcctcagttt  gcttgtggac  120
atttcaaatt  tgagggtgaga  gttggataag  taagaataaa  gctgctcttc  aaagagatga  180
atatagaaaa  agaaacaaga  tacagncttg  gcagtaaggc  tgggaggaag  gggaaaaggt  240
aataaagaat  gaaagagtga  gaaatgtgag  caggagctga  acacagaaaa  gttagcngac  300
agaagcanaa  ggagggaaga  agggaggagg  gtccctttca  cagaggctca  cgaggatgct  360
ttatgngtgc  catgcagtc  atgttcagga  tgtctgcttc  ttanctctct  acttttctaa  420
tanaaatgtg  gatacttact  gatcctacat  atgtaacagg  gagagaaggt  gaatttcaaa  480
gcantaaatt  gaaaaattgt  tcacaatttc  atttttttaa  aaaaggagac  taacagaaga  540
agagggtaat  gtggttaatta  taggatgnct  cttgcgacac  atgaatgnat  ctggtatcat  600
ctgagtggga  ggggagctgt  ctctctgacc  caaaaggatc  ctttcgttan  ccngnactta  660
ngtcccaaaa  cctcaccacc  ttggagaaat  natttccttt  tgggggtntc  attaaancct  720
tttggncccc  gcaaaaagc  738

```

<210> 748

<211> 647

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(647)

<223> n=A,T,C or G

<400> 748

```

ctntgtggcg  gtggctgtct  catttgggtg  gacttttttg  gtcgtaggaa  cctggtatng  60
aggctcgagag  taagacgggc  tattagtagt  cgcacgcggg  ttatttgtga  aaacctgggt  120
agggcctctg  tctccgctgc  gctcgcctaa  attgggtatg  ctgcacttgg  aaacacgggt  180
ctaacacgcg  ttgttagcgc  ccttgctagc  atgtgaagga  cactggccct  accaagaaag  240
attcgagtcg  ctccctccgg  tategttcac  ggaggcgata  tttactcttc  ttactacggt  300
tacttcgaga  ttgtctgtga  agtttaagac  tactaaaaag  agtattaagc  ctatcgggaa  360
ttagctagat  cgacacgcta  aaaccaaggg  caatcggcgg  aaatatagag  gcaccaataa  420
tagggcctac  agaaggcccg  agggttagac  tcacgtttta  taccggccac  gggagaaata  480
aaaagataaa  gtatacatcg  tttagcggtc  ctcggaagcc  ttcggtttta  atgccaagga  540
gtcgggaagca  tcgtcggcga  gtaataaact  ccacgcgcgc  gagactatct  acgacgccct  600
ccttaanatc  cgtaaattac  tcccggaaag  agtatttagg  cggctct  647

```

<210> 749

<211> 642

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(642)

<223> n=A,T,C or G

009060"622590

<400> 751							
cttttgtggc	gngggtgtct	catttgggtg	gatttttggg	tcgtaggnaa	cctggtatng	60	
aggcagctct	gagccccccc	cccccccccc	ccccccnccc	ccccccccta	gngggttggg	120	
aanacggtgg	atacctaaat	cgagtgngtt	cattaaaagt	agttgattac	nccctaaaaa	180	
aanaanaggg	cttcgctcgg	anaaatcggg	aagganaagt	ctttttggca	tcataanaat	240	
actggctcgg	gtccctaanat	ntttaagngn	gtcnccgagg	gtnttcatac	cgataanaaa	300	
cgttttccta	tcggcaacgq	qcttacctga	ggnggagact	ctcncggngc	ggngattnan	360	

```
<210> 752
<211> 644
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> (1)...(644)  
<223> n=A,T,C or G
```

```
<210> 753
<211> 635
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> (1)...(635)  
<223> n=A,T,C or G
```

<210> 754  
<211> 721

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(721)  
<223> n=A,T,C or G

<400> 754  
accggattng ttntctgagcg cgtgactgct aataaaaaag atggantgcc atcttttttt 60  
ttnccttgct ttatatatcc agcagcaaaa caaaattggt ctgcngggct ataaaatttg 120  
gcttgtagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180  
ctcaagggaa gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240  
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cccctaaagc agagggagaa taaggagttc tccccatgat ggaaaatata caaagacaag 420  
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<210> 755  
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<212> DNA  
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<220>  
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<223> n=A,T,C or G

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gcttgtagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180  
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atggagtgt gatgcctgca acttaccaa tttatctatg aatcagattc cagtgggaga 360  
cccctaaagc agagggagaa taaggagttc tccccatgat ggaaaatata caaagacaag 420  
gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480  
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ctctctcttg ntcccctgac ccttttttct tcccantgca tacttttttn ttccctttt 600  
ttaatcttct atantcttaa ncctaccaan gggccctcnt gannaatttn tcaccctga 660  
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a 721

<210> 756  
<211> 873  
<212> DNA  
<213> Homo sapiens

<220>

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<221> misc\_feature  
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 <223> n=A,T,C or G

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 tcagcaatta ggctgaaagt caacgccaag ctggcgggca agggctgggc tgagtagagg 180  
 ttccctaggc aggcaagaga gagactccca ctcgatactc ccagctcggc aactgcctga 240  
 atgccaatga gcactcatta taaccgccc tattttatag gatttaattt tacacttcag 300  
 gcttaatcag tctgaaagtt aaactgacag tgtaaagtta cggaatcaat gacatttagg 360  
 ctttatgact ttgtagctga atatctatgg gctatatatt cattctaaca gtgatatcct 420  
 gttccagaat ctcatctttt ggtgatggca ctttctagt gagcagtcac ggtaacagtc 480  
 cacaccatt accatgtggg tgctttacag catactgacg gaaggactga ggagccaccg 540  
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 ctgatgccaa cgaanaaccc aaagcgctct cccttccaga tggaagctgc cccacactgg 660  
 gctgacagca tctggagctg ctctggctca aatcccgaa tcgcacanct cctancgggg 720  
 gcgtttanag atcctcnggg ccagctaccg accacttttg acaagggnc ttaggagcgat 780  
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<210> 757  
 <211> 782  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 atctgtgaag tggagaggcg ctttgggctt ctctgttggc atcaggtgcc catacctagg 180  
 gcagctgtgg aagtgtcagc gtcctccctg agaggaactc ctgctccggt ggctcctcag 240  
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 ctgntccctt aaaaggtggc cttcccnaag aaaggagaat tcttggacna gggatttcac 360  
 ttgnttagaa atgggaaaaa ttaccatta gaattttcgn ttccaaggcn tnaagncccta 420  
 aaaggccttt gattcccga ccttaaccct gggcagttaa ctttcaaac gggataaacc 480  
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 tcaggcantt gccaacctgg gaaattcana ggggaagtnt ttttttttgc ctgcctaggg 600  
 aacctttact taaacnaacc cttgnccccc catttggggt tgactttcan cctaattgct 660  
 gaaaggaccg ggccgntttt gntttccttt gncccaaagg naaanaaacg ggtgccantt 720  
 cccanggat tanttcccga aaatttggnn aattttntt tгнаactttt tgggtttttt 780  
 cc 782

<210> 758  
 <211> 647  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<222> (1)...(647)  
 <223> n=A,T,C or G

<400> 758  
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 gcggcggggc tattctctcc aaaggcagag gtccctagtc gacctcgctc ccctagggtta 180  
 ggaacagccg tcgaatattt taggttcgtc gaggtcttct tccgagctct acgcctaagt 240  
 agctccgcga gcaaagtatc ggtcattttc ccctatccat cactccccta agtacgcctc 300  
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 cgcgtgccgc gaaagggcag agcttcgtgt ctccctccg cagcagctta acggtctacg 420  
 taggcgttct cgatcttttc acgggaatcg gggcccgga gggcggcgga aaacgtcgac 480  
 gtctcgggtca ccgtcacgcg cccgaacaac tagcggcttt ccgctttcaa ctgaggaacc 540  
 ccgcaccctt cattagcgct tacgaaatcg gggangtgat tgcgccaatt cgttagcctt 600  
 cgataattat tctctattag cggtcctatc tcgcgctttc gatttat 647

<210> 759  
 <211> 657  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(657)  
 <223> n=A,T,C or G

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 tgtagtagta ggtactgcgg gaaggcgaag agtcctttca aggacgattt acttaagttg 180  
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 gatagggttg gacttaaggc gaataagaag gaggcggcgg aggtcgcgat taccgcagag 300  
 atattattta cggcgccgcg gggtagccgc ggtcatgcgg aaattttctg aggttcttgg 360  
 attcctaaga tcgctcccggt cgagtatact agcgacgaac gtaagagtgc cctcacaaga 420  
 accggtacaa actcaagaag aagttcccat taagcatcgt aagaaacggg aggacgagga 480  
 cggtaagaag taatcggaga aaggatccta gtngttacga agaagcatcg ttnagctact 540  
 ttgcgtacc gtttatattt agacgtgttc cgtccttctc cgtgtttana aaaaagggtt 600  
 attccgacgg gagacttagg cgaatggagg gttccgcggt tganaatcgg ancgggg 657

<210> 760  
 <211> 644  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(644)  
 <223> n=A,T,C or G

<400> 760  
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 ggaaaagaag taagcctcga agcctatctc cgaccgtatt tatttcgcag aagacgggaac 120  
 tacggacgtc gttaaccccc agtagcccc gtaagaaagg actaaagcga atggaaaagt 180  
 cgggaattcc ggcggagggg cggcgattac tgaaaggagt aagagtaaga ctattgcgat 240

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<213> Homo sapiens
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<220>
<221> misc_feature
<222> (1)...(647)
<223> n=A,T,C or G
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<210> 762
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<212> DNA
<213> Homo sapiens
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ttgactgtca	gtcttagagg	actgactaga	agtagttttc	atttggggct	caggaaatac	180
ctactttata	tttctagcta	attaggaaag	tcatttttca	gttaggttgg	tgttttggtt	240
caggcactcg	ctagctagat	gacctaacat	gctacttaat	ttctgagtgt	ttgtgtccat	300
ccctgtagga	ttgttgcg	gttaaataaa	atttgtgtata	tttgtaaagc	atttacctca	360
gtgccagac	tgtgacagag	tagattatta	ggcttgctct	tatttctgtg	attaaattta	420
gtgcagatt	agcaacctat	agctacttct	aaagctgctg	ctgctttctt	tgtttagggg	480
taggaagaaa	catgctggac	agtttgccaa	atgagagtta	catgatgtgg	cttgtgggaa	540
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<210> 763  
 <211> 147  
 <212> DNA  
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<220>  
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 <223> n=A,T,C or G

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 ttttttttat gcacaccacc ttcnggc 147

<210> 764  
 <211> 146  
 <212> DNA  
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<220>  
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 <223> n=A,T,C or G

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 nnnaactggt gccgnntgct cagtat 146

<210> 765  
 <211> 129  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n=A,T,C or G

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 nagaggcgg 129

<210> 766  
 <211> 175  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n=A,T,C or G

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<400> 766  
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<210> 767  
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<212> DNA  
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<220>  
<221> misc\_feature  
<222> (1)...(602)  
<223> n=A,T,C or G

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ggtgcagaac ctgtggaatc agccaatttg gcttgctcat ttactttaat aagggtcccat 180  
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ctgtttctca aggaggaagt agcaaaaatt aggacgctgg aatatacctat gttgtagcaa 540  
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ta 602

<210> 768  
<211> 671  
<212> DNA  
<213> Homo sapiens

<220>  
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gccttttcca tgcttgcttg atgcggcttg cagcactgaa gaacagtttc aattgctagc 240  
caaccagaga gcatgatcaa accaaacaag ttccctgttt caggaaaaac aggttttagg 300  
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canaaaatng n 671

<210> 769

<211> 877  
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<220>  
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 <223> n=A,T,C or G

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 <211> 874  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (1)...(874)  
 <223> n=A,T,C or G

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 ccgatgagta ggtaacagta ttttactgat aggtaatcta aagaaggagg ctaaataaat 180  
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<210> 771

<211> 156  
 <212> DNA  
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<220>  
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 <222> (1)...(156)  
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<210> 772  
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<220>  
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 <223> n=A,T,C or G

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 tccagatatg aaacttaccc ccagctatgg tcttctatct gttatttaatt ttctaggcca 180  
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<210> 773  
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 <212> DNA  
 <213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 774

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<212> PRT

<213> Homo sapiens

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 Thr Gly Pro Lys Lys Phe Ile Val Lys Leu Ser Ser Lys Gln Val Lys  
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 Pro Val Leu Val Cys Arg Ala Met Cys Ala Met Met Ser Phe Glu Lys  
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 Pro Tyr Asp Gly Trp Gln Ala Val Asp Ala Thr Pro Gln Glu Arg Ser  
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 Ser Thr Lys Ala Val Gly Gln Asp Arg Arg Arg Asp Ile Thr Tyr Glu  
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Lys Lys Met Ala Lys Leu Cys Asp Leu Asn Lys Thr Ser Gln Ile Gln  
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Gly Gln Val Ser Glu Val Thr Leu Thr Leu Asp Ser Lys Thr Tyr Ile  
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Ile Ala Glu Ile Val Glu Ser Lys Glu Ile Met Ala Ser Glu Val Phe  
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Arg Ile Gly Gln Leu Leu Val Cys Asn Cys Ile Phe Lys Asn Thr Leu  
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Ala Ile Pro Leu Thr Asp Val Lys Phe Ser Leu Glu Ser Leu Gly Ile  
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Ile Gln Ser Gln Ile Lys Cys Thr Pro Ile Lys Thr Gly Pro Lys Lys  
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<211> 5668

<212> DNA

<213> Homo sapiens

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Arg Leu Ile His Ile Phe Thr Val Ser Arg Asn Leu Gly Pro Lys Ile	835		840		845
Ile Met Leu Gln Arg Met Leu Ile Asp Val Phe Phe Phe Leu Phe Leu	850		855		860
Phe Ala Xaa Trp Met Val Ala Phe Gly Val Ala Arg Gln Gly Ile Leu	865		870		875
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Glu Pro Tyr Leu Ala Met Phe Gly Gln Val Pro Ser Asp Val Asp Gly	900		905		910
Thr Thr Tyr Asp Phe Ala His Cys Thr Phe Thr Gly Asn Glu Ser Lys	915		920		925
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Trp Ile Thr Ile Pro Leu Val Cys Ile Tyr Met Leu Ser Thr Asn Ile	945		950		955
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Val Gln Glu Asn Asn Asp Gln Val Trp Lys Phe Gln Arg Tyr Phe Leu	980		985		990
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Phe Ala Tyr Phe Tyr Met Val Val Lys Lys Cys Phe Lys Cys Cys Cys	1010		1015		1020
Lys Glu Lys Asn Met Glu Ser Ser Val Cys Cys Phe Lys Asn Glu Asp	1025		1030		1035
Asn Glu Thr Leu Ala Trp Glu Gly Val Met Lys Glu Asn Tyr Leu Val			1045		1050
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1090

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 <213> Artificial Sequence

<220>

005060"6225960

<223> PCR primer

<400> 820

ggggaattca tgatccggga gaaatttgcc cactgc

36

<210> 821

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 821

gggctcgagt caggagtttg agaccagcct ggc

33

<210> 822

<211> 675

<212> DNA

<213> Homo sapiens

<400> 822

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atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccaggggtggg 60
cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
accgttcata tcgggcctac cgccttctc ggcttgggtg ttgtcgacaa caacggcaac 180
ggcgcacgag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240
ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
gcgcttaacg ggcacatcc cggtgacgtc atctcggtga cctggcaaac caagtcgggc 360
ggcacgcgta cagggaaagt gacattggcc gagggacccc cggccgaatt catgatccgg 420
gagaaatttg cccactgcac cgtgctaacc attgcacaca gattgaacac cattattgac 480
agcgacaaga taatggtttt agattcagga agactgaaag aatatgatga gccgtatggt 540
ttgctgcaaa ataaagagag cctattttac aagatggtgc aacaactggg caaggcagaa 600
gccgtgccc tcaactgaaac agcaaaacag agatgggggt tcacatggt ggccaggctg 660
gtctcaaaact cctga                                     675

```

<210> 823

<211> 291

<212> DNA

<213> Homo sapiens

<400> 823

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atggggatcc gggagaaatt tgccactgc accgtgctaa ccattgcaca cagattgaac 60
accattattg acagcgacaa gataatgggt ttagattcag gaagactgaa agaatatgat 120
gagccgtatg ttttgctgca aaataaagag agcctatttt acaagatggg gcaacaactg 180
ggcaaggcag aagccgtgc cctcactgaa acagcaaaac agagatggg tttcaccatg 240
ttggccaggc tgggtctcaa ctcctctcag caccaccacc accaccactg a 291

```

<210> 824

<211> 1074

<212> DNA

005060" 6225960

<213> Homo sapiens

<400> 824

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atgtcagcca ttgagaggggt gtcagaggca atcgtcagca tccgaagaat ccagaccttt 60
ttgctacttg atgagatata acagcgcaac cgtcagctgc cgtcagatgg taaaaagatg 120
gtgcatgtgc aggattttac tgcttttttg gataaggcat cagagacccc aactctacaa 180
ggcctttcct ttactgtcag acctggcgaa ttgttagctg tggtcggccc cgtgggagca 240
gggaagtcac cactgttaag tgccgtgctc ggggaattgg cccaagtca cgggctggtc 300
agcgtgcatg gaagaattgc ctatgtgtct cagcagccct ggggtgttctc ggggaactctg 360
aggagtaata ttttattttg gaagaaatac gaaaaggaac gatatgaaaa agtcataaag 420
gcttgtgctc tgaaaaagga tttacagctg ttggaggatg gtgatctgac tgtgatagga 480
gatcggggaa ccacgctgag tggagggcag aaagcacggg taaaccttgc aagagcagtg 540
tatcaagatg ctgacatcta tctcctggac gatcctctca gtgcagtaga tgcggaagtt 600
agcagacact tgttcgaact gtgtatttgt caaattttgc atgagaagat cacaatttta 660
gtgactcatc agttgcagta cctcaaagct gcaagtcaga ttctgatatt gaaagatggg 720
aaaatgggtgc agaaggggac ttacactgag ttctctaaat ctggtataga ttttggtctc 780
cttttaaaaga aggataatga ggaaagtga caacctccag ttccaggaac tcccacacta 840
aggaatcgta ccttctcaga gtcttcgggt tgggtctcaac aatcttctag acctctcttg 900
aaagatgggtg ctctggagag ccaagatata gagaatgtcc cagttacact atcagaggag 960
aacggttctg aaggaaaagt tgggttttcag gcctataaga attacttcag agctgggtgct 1020
cactggattg tcttcatttt ccttattctc gagcaccacc accaccacca ctga 1074

```

<210> 825

<211> 224

<212> PRT

<213> Homo sapiens

<400> 825

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Met His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
      5                      10                      15

Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
      20                      25                      30

Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
      35                      40                      45

Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
      50                      55                      60

Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
      65                      70                      75                      80

Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
      85                      90                      95

Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
      100                     105                     110

Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
      115                     120                     125

Leu Ala Glu Gly Pro Pro Ala Glu Phe Met Ile Arg Glu Lys Phe Ala
      130                     135                     140

```

005050"6225960

His 145	Cys	Thr	Val	Leu	Thr 150	Ile	Ala	His	Arg	Leu 155	Asn	Thr	Ile	Ile	Asp 160
Ser	Asp	Lys	Ile	Met 165	Val	Leu	Asp	Ser	Gly 170	Arg	Leu	Lys	Glu	Tyr 175	Asp
Glu	Pro	Tyr	Val 180	Leu	Leu	Gln	Asn 185	Lys	Glu	Ser	Leu	Phe	Tyr 190	Lys	Met
Val	Gln	Gln 195	Leu	Gly	Lys	Ala	Glu 200	Ala	Ala	Ala	Leu	Thr 205	Glu	Thr	Ala
Lys 210	Gln	Arg	Trp	Gly	Phe	Thr 215	Met	Leu	Ala	Arg	Leu 220	Val	Ser	Asn	Ser

```
<210> 826
<211> 357
<212> PRT
<213> Homo sapiens
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<400> 826
Met Ser Ala Ile Glu Arg Val Ser Glu Ala Ile Val Ser Ile Arg Arg
          5              10              15
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Ile Gln Thr Phe Leu Leu Leu Asp Glu Ile Ser Gln Arg Asn Arg Gln  
20 25 30

Leu Pro Ser Asp Gly Lys Lys Met Val His Val Gln Asp Phe Thr Ala  
35 40 45

Phe Trp Asp Lys Ala Ser Glu Thr Pro Thr Leu Gln Gly Leu Ser Phe  
50 55 60

Thr Val Arg Pro Gly Glu Leu Leu Ala Val Val Gly Pro Val Gly Ala  
65 70 75 80

Gly Lys Ser Ser Leu Leu Ser Ala Val Leu Gly Glu Leu Ala Pro Ser  
85 90 95

His Gly Leu Val Ser Val His Gly Arg Ile Ala Tyr Val Ser Gln Gln  
100 105 110

Pro Trp Val Phe Ser Gly Thr Leu Arg Ser Asn Ile Leu Phe Gly Lys  
115 120 125

Lys Tyr Glu Lys Glu Arg Tyr Glu Lys Val Ile Lys Ala Cys Ala Leu  
130 135 140

Lys Lys Asp Leu Gln Leu Leu Glu Asp Gly Asp Leu Thr Val Ile Gly

145                      150                      155                      160  
 Asp Arg Gly Thr Thr Leu Ser Gly Gly Gln Lys Ala Arg Val Asn Leu  
                                  165                      170                      175  
 Ala Arg Ala Val Tyr Gln Asp Ala Asp Ile Tyr Leu Leu Asp Asp Pro  
                                  180                      185                      190  
 Leu Ser Ala Val Asp Ala Glu Val Ser Arg His Leu Phe Glu Leu Cys  
                                  195                      200                      205  
 Ile Cys Gln Ile Leu His Glu Lys Ile Thr Ile Leu Val Thr His Gln  
                                  210                      215                      220  
 Leu Gln Tyr Leu Lys Ala Ala Ser Gln Ile Leu Ile Leu Lys Asp Gly  
 225                                   230                      235                      240  
 Lys Met Val Gln Lys Gly Thr Tyr Thr Glu Phe Leu Lys Ser Gly Ile  
                                  245                      250                      255  
 Asp Phe Gly Ser Leu Leu Lys Lys Asp Asn Glu Glu Ser Glu Gln Pro  
                                  260                      265                      270  
 Pro Val Pro Gly Thr Pro Thr Leu Arg Asn Arg Thr Phe Ser Glu Ser  
                                  275                      280                      285  
 Ser Val Trp Ser Gln Gln Ser Ser Arg Pro Ser Leu Lys Asp Gly Ala  
                                  290                      295                      300  
 Leu Glu Ser Gln Asp Thr Glu Asn Val Pro Val Thr Leu Ser Glu Glu  
 305                                   310                      315                      320  
 Asn Arg Ser Glu Gly Lys Val Gly Phe Gln Ala Tyr Lys Asn Tyr Phe  
                                  325                      330                      335  
 Arg Ala Gly Ala His Trp Ile Val Phe Ile Phe Leu Ile Leu Glu His  
                                  340                      345                      350  
 His His His His His  
                                  355

<210> 827  
 <211> 96  
 <212> PRT  
 <213> Homo sapiens

<400> 827  
 Met Gly Ile Arg Glu Lys Phe Ala His Cys Thr Val Leu Thr Ile Ala  
                                  5                      10                      15  
 His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys Ile Met Val Leu Asp  
                                  20                      25                      30

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Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr Val Leu Leu Gln Asn  
 35 40 45

Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln Leu Gly Lys Ala Glu  
 50 55 60

Ala Ala Ala Leu Thr Glu Thr Ala Lys Gln Arg Trp Gly Phe Thr Met  
 65 70 75 80

Leu Ala Arg Leu Val Ser Asn Ser Leu Glu His His His His His His  
 85 90 95

<210> 828

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 828

cgcccatggg gatccgggag aaatttgccc actgc 35

<210> 829

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 829

cgctcgagg gagtttgaga ccagcctggc caaca 35

<210> 830

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 830

gcatggacca tatgtcagcc attgagaggg tgtcagag 38

<210> 831

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

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260                      265                      270  
 Leu Arg Ser Lys Val Tyr Ala Ala Phe Gly Gly Ser Ser Pro Cys Leu  
           275                      280                      285  
 Lys Gly Leu Met Ser Leu Trp Ala Ser Trp Leu Ser Arg Gly Arg Pro  
           290                      295                      300

<210> 836  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 836  
 cgaagtcacg tggaggccag cctc 24

<210> 837  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 837  
 cctgaccgaa ttcattaact ggcttgac 29

<210> 838  
 <211> 166  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (1)...(166)  
 <223> Xaa = Any Amino Acid

<400> 838  
 Met Gly His His His His His Val Glu Ala Ser Leu Ser Val Arg  
   1                          5                          10                          15  
 His Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile  
           20                          25                          30  
 Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser  
           35                          40                          45  
 Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu Val Ser Gly  
           50                          55                          60  
 Trp Gly Leu Leu Ala Asn Gly Arg Met Pro Thr Val Leu Gln Cys Val

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<400> 841  
ctatagaatt cattaccaaa aagctgggct ccagc

35

<210> 842  
<211> 241  
<212> PRT  
<213> Homo sapiens

<400> 842  
Met Gln His His His His His His Leu Arg Val Pro Glu Pro Arg Pro  
1 5 10 15  
Gly Glu Ala Lys Ala Glu Gly Ala Ala Pro Pro Thr Pro Ser Lys Pro  
20 25 30  
Leu Thr Ser Phe Leu Ile Gln Asp Ile Leu Arg Asp Gly Ala Gln Arg  
35 40 45  
Gln Gly Gly Arg Thr Ser Ser Gln Arg Gln Arg Asp Pro Glu Pro Glu  
50 55 60  
Pro Glu Pro Glu Pro Glu Gly Gly Arg Ser Arg Ala Gly Ala Gln Asn  
65 70 75 80  
Asp Gln Leu Ser Thr Gly Pro Arg Ala Ala Pro Glu Glu Ala Glu Thr  
85 90 95  
Leu Ala Glu Thr Glu Pro Glu Arg His Leu Gly Ser Tyr Leu Leu Asp  
100 105 110  
Ser Glu Asn Thr Ser Gly Ala Leu Pro Arg Leu Pro Gln Thr Pro Lys  
115 120 125  
Gln Pro Gln Lys Arg Ser Arg Ala Ala Phe Ser His Thr Gln Val Ile  
130 135 140  
Glu Leu Glu Arg Lys Phe Ser His Gln Lys Tyr Leu Ser Ala Pro Glu  
145 150 155 160  
Arg Ala His Leu Ala Lys Asn Leu Lys Leu Thr Glu Thr Gln Val Lys  
165 170 175  
Ile Trp Phe Gln Asn Arg Arg Tyr Lys Thr Lys Arg Lys Gln Leu Ser  
180 185 190  
Ser Glu Leu Gly Asp Leu Glu Lys His Ser Ser Leu Pro Ala Leu Lys  
195 200 205  
Glu Glu Ala Phe Ser Arg Ala Ser Leu Val Ser Val Tyr Asn Ser Tyr  
210 215 220  
Pro Tyr Tyr Pro Tyr Leu Tyr Cys Val Gly Ser Trp Ser Pro Ala Phe  
225 230 235 240  
Trp

<210> 843  
<211> 729  
<212> DNA  
<213> Homo sapiens

<400> 843  
atgcagcatc accaccatca ccacctcagg gttccggagc cgcggccccgg ggaggcgaaa 60  
gcggaggggg ccgcgccgcc gaccccgctc aagccgctca cgtccttcct catccaggac 120  
atcctgcggg acggcgcgca gcggcaaggc ggccgcacga gcagccagag acagcgcgac 180  
ccggagccgg agccagagcc agagccagag ggaggacgca gccgcgccgg ggcgcagAAC 240

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gaccagctga gcaccggggcc ccgcgccgcg ccggatgagg ccgagacgct ggcagagacc 300  
gagccagaaa ggcacttgagg gtcttatctg ttggactctg aaaacacttc aggcgcctt 360  
ccaaggcttc cccaaacccc taagcagccg cagaagcgct cccgagctgc cttctccac 420  
actcaggtga tcgagttgga gaggaagttc agccatcaga agtacctgtc ggcccctgaa 480  
cggggcccacc tggccaagaa cctcaagctc acggagaccc aagtgaagat atgggtccag 540  
aacagacgct ataagactaa gcgaaagcag ctctcctcgg agctgggaga cttggagaag 600  
cactcctttt tgccggccct gaaagaggag gccttctccc gggcctccct ggtctccgtg 660  
tataacagct atccttacta cccatacctg cactgcgtgg gcagctggag cccagctttt 720  
tggtaatga 729

<210> 844  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> PCR primer

<400> 844  
ctactaagcg ctggagtgag ggatcag 27

<210> 845  
<211> 33  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> PCR primer

<400> 845  
catcgagaat tcactactct ctgactagat gtc 33

<210> 846  
<211> 161  
<212> PRT  
<213> Homo sapiens

<400> 846  
Met Gln His His His His His Ala Gly Val Arg Asp Gln Gly Gln  
1 5 10 15  
Gly Ala Arg Trp Pro His Thr Gly Lys Arg Gly Pro Leu Leu Gln Gly  
20 25 30  
Leu Thr Trp Ala Thr Gly Gly His Cys Phe Ser Ser Glu Glu Ser Gly  
35 40 45  
Ala Val Asp Gly Ala Gly Gln Lys Lys Asp Arg Ala Trp Leu Arg Cys  
50 55 60  
Pro Glu Ala Val Ala Gly Phe Pro Leu Gly Ser Asp Cys Arg Glu Gly  
65 70 75 80  
Gly Arg Gln Gly Cys Gly Gly Ser Asp Asp Glu Asp Asp Leu Gly Val  
85 90 95  
Ala Pro Gly Leu Ala Pro Ala Trp Ala Leu Thr Gln Pro Pro Ser Gln

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100 105 110  
 Ser Pro Gly Pro Gln Ser Leu Pro Ser Thr Pro Ser Ser Ile Trp Pro  
 115 120 125  
 Gln Trp Val Ile Leu Ile Thr Glu Leu Thr Ile Pro Ser Pro Ala His  
 130 135 140  
 Gly Pro Pro Trp Leu Pro Asn Ala Leu Glu Arg Gly His Leu Val Arg  
 145 150 155 160  
 Glu

<210> 847  
 <211> 489  
 <212> DNA  
 <213> Homo sapiens

<400> 847  
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 cctcacacag ggaagagagg gccctcctg cagggcctca cctgggccac aggaggacac 120  
 tgcttttctt ctgaggagtc aggagctgtg gatggtgctg gacagaagaa ggacagggcc 180  
 tggctcaggt gtccagaggc tgtcgtctggc ttccctttgg gatcagactg caggaggaggga 240  
 gggcgggcagg gttgtggggg gagtgacgat gaggatgacc tgggggtggc tccaggcctt 300  
 gcccttgcct gggccctcac ccagcctccc tcacagtctc ctggccctca gtctctcccc 360  
 tccactccat cctccatctg gcctcagtgg gtcattctga tcactgaact gaccataccc 420  
 agccctgccc acggccctcc atggctcccc aatgccttgg agaggggaca tctagtcaga 480  
 gagtagtga 489

<210> 848  
 <211> 132  
 <212> PRT  
 <213> Homo sapiens

<400> 848  
 Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe  
 1 5 10 15  
 Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser  
 20 25 30  
 Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly  
 35 40 45  
 Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val  
 50 55 60  
 Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val  
 65 70 75 80  
 Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala  
 85 90 95  
 Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp  
 100 105 110  
 Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu  
 115 120 125  
 Gly Pro Pro Ala  
 130

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<210> 852
<211> 400
<212> PRT
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&lt;213&gt; Homo sapiens

&lt;400&gt; 852

Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu  
                                   5                                  10                                  15  
 Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala  
                                   20                                  25                                  30  
 Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala  
                                   35                                  40                                  45  
 Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val  
                                   50                                  55                                  60  
 Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr  
                                   65                                  70                                  75                                  80  
 Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr  
                                   85                                  90                                  95  
 Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser  
                                   100                                  105                                  110  
 Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr  
                                   115                                  120                                  125  
 Leu Ala Glu Gly Pro Pro Ala Glu Phe Ile Thr Tyr Val Pro Pro Leu  
                                   130                                  135                                  140  
 Leu Leu Glu Val Gly Val Glu Glu Lys Phe Met Thr Met Val Leu Gly  
                                   145                                  150                                  155                                  160  
 Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser Ala  
                                   165                                  170                                  175  
 Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp  
                                   180                                  185                                  190  
 Ala Leu Ser Leu Gly Ile Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala  
                                   195                                  200                                  205  
 Gly Trp Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu  
                                   210                                  215                                  220  
 Ala Leu Leu Ile Leu Gly Val Gly Leu Leu Asp Phe Cys Gly Gln Val  
                                   225                                  230                                  235                                  240  
 Cys Phe Thr Pro Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro  
                                   245                                  250                                  255  
 Asp His Cys Arg Gln Ala Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu  
                                   260                                  265                                  270

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<210> 856  
 <211> 30  
 <212> DNA  
 <213> Homo sapiens

<400> 856  
 gcctctgcct gtgatgtctc cgtacgtgtg

30

<210> 857  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 857  
 Ala Ser Ala Cys Asp Val Ser Val Arg  
 1 5

<210> 858  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 858  
 Ser Ala Cys Asp Val Ser Val Arg Val  
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<210> 859  
 <211> 27  
 <212> DNA  
 <213> Homo sapiens

<400> 859  
 tctgcctgtg atgtctccgt acgtgtg

27

<210> 860  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 860  
 Gly Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser  
 5 10 15

Ala Ser Asp

<210> 861  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

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<400> 861

Val Pro Pro Leu Leu Leu Glu Val Gly Val Glu Glu Lys Phe Met Thr  
                           5                          10                          15

Met Val Leu

<210> 862

<211> 19

<212> PRT

<213> Homo sapiens

<400> 862

Met Val Gln Arg Leu Trp Val Ser Arg Leu Leu Arg His Arg Lys Ala  
                           5                          10                          15

Gln Leu Leu

<210> 863

<211> 57

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(57)

<223> n = A,T,C or G

<400> 863

ggnathggnc cngtnytngg nytngtntgy gtncnnytny tnggnwsngc nwsngay 57

<210> 864

<211> 57

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(57)

<223> n = A,T,C or G

<400> 864

gtncncnny tnytnytnga rgtnggngtn gargaraart tyatgacnat ggtnytn 57

<210> 865

<211> 57

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

009060"0225960

<222> (1)...(57)

<223> n = A,T,C or G

<400> 865

atggtnccarm gnytnntgggt nwsnmgnytn ytnmgncaym gnaargcnca rytnytn 57

<210> 866

<211> 9

<212> PRT

<213> Homo sapiens

<400> 866

Val Leu Gln Cys Val Asn Val Ser Val  
1 5

<210> 867

<211> 9

<212> PRT

<213> Homo sapiens

<400> 867

Arg Met Pro Thr Val Leu Gln Cys Val  
1 5

<210> 868

<211> 9

<212> PRT

<213> Homo sapiens

<400> 868

Asn Leu Cys Lys Phe Thr Glu Trp Ile  
1 5

<210> 869

<211> 9

<212> PRT

<213> Homo sapiens

<400> 869

Met Leu Ile Lys Leu Asp Glu Ser Val  
1 5

<210> 870

<211> 9

<212> PRT

<213> Homo sapiens

<400> 870

Leu Leu Ala Asn Asp Leu Met Leu Ile  
1 5

<210> 871

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<211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 871  
 Leu Leu Ala Asn Gly Arg Met Pro Thr Val  
 1 5 10

<210> 872  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 872  
 Leu Met Leu Ile Lys Leu Asp Glu Ser Val  
 1 5 10

<210> 873  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 873  
 Val Leu Gln Cys Val Asn Val Ser Val Val  
 1 5 10

<210> 874  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 874  
 Gly Leu Leu Ala Asn Gly Arg Met Pro Thr  
 1 5 10

<210> 875  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 875  
 Thr Val Leu Gln Cys Val Asn Val Ser Val  
 1 5 10

<210> 876  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 876  
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